


1963

Prospectus Day and Evening Courses: Session 1963-64

City of Dublin Vocational Education Committee

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MATHEMATICS

SCIENCE

BAKERY PRACTICE

CONFECTIONERY
DECORATION

FLOUR MILLING

OPHTHALMIC AND
DISPENSING OPTICS



ELECTRICAL
ENGINEERING

ELECTRICAL
INSTALLATION



RADIO AND
TELEVISION SERVICING

RADIO OFFICERS

RADAR

POST OFFICE
ENGINEERING

AIR NAVIGATION

CINEMA PROJECTION



Phone: 56478-9

COLLEGE OF TECHNOLOGY

Kevin Street, Dublin

PROSPECTUS

Day and Evening Courses

SESSION
1963-64

CALENDAR—SESSION 1963-64

- 1963—SEPT. 2 Monday - Whole-time and Part-time Day Courses open for enrolment. Entrance Examinations for these Courses will be held during the week. Day Apprentice Classes commence work.
- 9 Monday - Whole-time and Part-time Day Classes commence work. Evening Courses open for enrolment and Entrance Examinations for these will be held during the week.
- 16 Monday - Evening Classes commence work.
- OCT. 23 Wednesday Solemn Votive Mass to mark the opening of the academic year in the City of Dublin Technical Colleges and Schools. Day Classes closed.
- DEC. 20 Friday - Final Class Meetings of Day and Evening Courses before Christmas vacation.
- 1964—JAN. 6 Monday - Day and Evening Classes resume work after Christmas vacation.
- 13 Monday - Mid-session Examinations will be held for all Evening Classes during this week, except where otherwise arranged.
- MAR. 24 Tuesday - Final Class Meetings of Day and Evening Courses before Easter vacation. Final Meetings of Evening Classes, except Examination Classes, or where otherwise arranged.
- APR. 6 Monday - Classes resume work after Easter vacation.
- JUNE 26 Friday - Summer Term closes, except where otherwise arranged.

On Friday, November 1st, *All Saints' Day*; Thursday, May 7th, *Ascension Day*, and Thursday, May 28th, *Feast of Corpus Christi*, all Day Classes closed. Evening Classes will be held as usual on these days.

The College is closed on all Bank Holidays.

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GENERAL INFORMATION

Day Classes will normally be held from 9 a.m. to 12.30 p.m. and 2 p.m. to 5 p.m. each week-day except Saturday unless special arrangements are made in specific cases.

Evening Classes will normally be held from 7 p.m. to 10 p.m. except where shown otherwise.

Senior Students' Union Subscription: Students enrolling in the Whole-time Courses, Radio Service Work (W.R.S.), Radio Officers (W.R.O.), Pre-University (W.S.U.), Senior Science (W.S.S.), Intermediate B.Sc. (W.S.I.), Opticians (W.S.O.) and Electrical Engineering (S.E.E.), are required to pay a Senior Students' Union fee of 10/- on enrolment. The fee is paid into the funds of the Union and is used by the Union to finance extra-curricular student activities.

Office Hours: 9 a.m. to 1 p.m. and 2.30 p.m. to 5 p.m., Monday to Friday.

ADVISORY COMMITTEES

THE PRINCIPAL and STAFF TEACHERS acting in collaboration with:—

AIR NAVIGATION

- R. W. O'SULLIVAN and P. J. FLANAGAN, Department of Transport and Power, Civil Aviation Section.
CAPT. T. P. McKEOWN, Aer Lingus, Dublin Airport.
CAPT. J. C. DEVOY, Trans-World Airlines, Inc.
CAPT. B. FLANAGAN, Chief Instructor, Air Navigation Courses.
M. J. O'FLANAGAN, B.E., Chief Inspector, Department of Education.

BAKERY

- Irish Bakers', Confectioners' and Allied Workers Union: J. SWIFT (Chairman), T. HARMON, P. KANE, J. FARNON, T. GOULDING, P. FLANAGAN and J. SWEETMAN.
Dublin Master Bakers' Committee: J. V. DOWNES, L. KENNEDY and G. RORKE.
Guild of Irish Bakers:
Confectionery Trade Branch, F.U.E.: W. H. LONG.

CINEMA AND THEATRE (PROJECTION)

- Theatre and Cinema Association (Ireland): M. CASEY (Secretary), D. TRACY, P. CLARKE, M. SCANLAN.
Cinema Branch, I.T.G.W.U.: S. KELLY, R. CRAWFORD, and M. McEVoy.
Co-opted: F. ROBBINS.

ELECTRICAL ENGINEERING

- A. HARKIN, M.E., M.I.E.E., M.I.MECH.E., M.I.C.E.I. (Chairman) and M. MACÍONNRAIC, B.E., Electricity Supply Board.
R. C. CUFFE, B.E., PH.D., M.I.E.E. and L. COLLINS, B.E., B.SC., A.M.I.E.E., The Institution of Electrical Engineers (Irish Branch)
A. J. LITTON, B.E., B.SC., A.M.I.C.E.I., M.I.E.E., Department of Posts and Telegraphs.
R. A. H. JACKSON, B.E., B.SC., A.R.C.S.C.I., A.M.I.E.E., A.M.I.C.E.I., Cumann na n-Innealtóirí.
P. H. GREER, M.I.E.E., Unidare Ltd.
J. A. MCCONNELL, M.I.E.E., Messrs. Roche and McConnell.
M. J. O'FLANAGAN, B.E., Chief Inspector, Department of Education.

MEDICAL LABORATORY TECHNOLOGY

- DR. F. GEOGHEGAN, Pathologist, National Maternity Hospital, Holles Street.
PROF. J. W. HARMAN, Professor of Pathology, U.C.D.
DR. P. T. MOORE, Biochemist, St. Kevin's Hospital.
DR. J. P. O'RIORDAN, Medical Director, The National Blood Transfusion Association.
DR. P. D. J. HOLLAND, Pathologist, Our Lady's Hospital for Sick Children.
J. CANN, Chief Technical Officer, National Blood Transfusion Association.
B. DOWNES, Senior Medical Laboratory Technologist, St. Kevin's Hospital.
H. FARRELL, Senior Medical Laboratory Technologist, Dr. Steevens' Hospital.
J. HANRATTY, Deputy Chief Technical Officer, National Blood Transfusion Association.
C. KEOGH, Senior Medical Laboratory Technologist, Richmond Hospital.

OPHTHALMIC OPTICS

THE PRESIDENT AND TWO MEMBERS OF COUNCIL, ASSOCIATION OF
OPHTHALMIC OPTICIANS, IRELAND.

POST OFFICE ENGINEERING

- A. J. LITTON, B.E., B.SC., A.M.I.C.E.I., M.I.E.E.; P. SULLIVAN and E. O'DUFFY,
B.E., A.M.I.E.E., Department of Posts and Telegraphs.
T. GOGGIN and K. O'HIGGINS, Irish Post Office Engineering Union.
M. J. O'FLANAGAN, B.E., Chief Inspector, Department of Education.

COLLEGE OF TECHNOLOGY—KEVIN ST.

Phone Nos. 56478-9.

AND

RADIO SCHOOL, 51 HARCOURT STREET

Phone No. 51469

Principal:

HUGH DE LACY, B.E., B.Sc., M.I.E.E.

Assistant Principal (Acting):

JOHN M. FORDE, B.E.

DEPARTMENT OF PURE AND APPLIED SCIENCE

Head of Department: Francis Nolan, M.Sc., H.Dip.Ed.

Lecturer-in-Charge, Chemistry and Biology:

W. Broderick, M.Sc., H.Dip.Ed., D.P.A., M.I.C.I., M.R.I.P.H.H.

Senior Lecturer, Mathematics: Thomas Ambrose, M.Sc.

DEPARTMENT OF ELECTRICAL ENGINEERING

Head of Department: Hugh de Lacy, B.E., B.Sc., M.I.E.E.

Lecturer-in-Charge: Thomas Short, A.M.I.E.E., Grad.Brit.I.R.E.

DEPARTMENT OF ELECTRICAL INSTALLATION WORK

Head of Department: Liam Trundle, Full Technological
Certificate (E.E.P.) (City and Guilds of London Institute).

Lecturer-in-Charge: J. J. Farrell, Grad.I.E.E.

Instructor-in-Charge, Mechanical Workshop: N. F. Goulding.

Instructor-in-Charge, Electrical Installation Workshop: I. Tighe.

DEPARTMENT OF TELECOMMUNICATIONS ENGINEERING

Head of Department: B. J. O'Connor, A.M.Brit.I.R.E.

Spiritual Directors:

Rev. P. Dunne, S.J. Rev. M. J. Morahan, S.J.

Stocktaker: Francis Nolan, M.Sc., H.Dip.Ed.

Clerical Staff:

Robert J. Day, Senior Clerk.

Joseph Flynn, Miss P. Sheehan, B.A., Miss J. McManus,
Miss M. O'Toole.

Instrument Technician: J. Farrell.

STAFF TEACHERS

- | | |
|---|--|
| S. Anthony, F.Inst.B.B., City and Guilds, F.T.C. | P. O Gallchobhair, B.Eol., A.T.O. |
| J. Blennerhassett | D. Harley |
| L. Breen, B.Sc., Dip.Chem.Tech. | W. S. E. Hickson, M.A., M.Sc., A.Inst.P., Hons.Dip.Ed. |
| F. M. Brennan, Grad.I.E.E. | R. Kelly, City and Guilds, F.T.C. (E.E.P.) |
| J. C. Calnan, B.Sc. | D. McManus |
| P. Connell | J. G. Mahon |
| B. Conway, B.A., H.Dip.Ed., T.T.G. | P. J. Murphy |
| T. Cronin, B.E. | D. Naessens |
| K. P. Culliton, F.A.O.I. | T. P. O'Brien, A.M.Brit.I.R.E. |
| Miss F. Doherty, B.Sc., B.A. (Mod.) | T. M. O'Flaherty, B.E., Grad.I.R.E. |
| T. A. G. Dowling, B.A., B.Comm., H.Dip.Ed. | I. O'Reilly, B.Sc., H.Dip.Ed. |
| T. J. Downes, Grad.I.E.E. | M. J. O'Rourke |
| O. Dunne, B.Sc. | P. O'Shea |
| M. Farrell, City and Guilds, F.T.C. (E.E.P.) | M. J. Rice, Grad.Brit.I.R.E. |
| J. M. Flood, B.E. (Mech. and Elec.), M.Sc. (Elec. Eng.) | E. J. Rothery, B.Sc., F.I.C.I., A.R.I.C. |
| | E. G. Seale, A.M.Brit.I.R.E. |
| | M. J. Sheehy, B.Sc., A.Inst.P. |

PART-TIME TEACHERS

- | | |
|---|--|
| T. A. Beiler, B.Sc. | P. Masterson |
| L. Brady, B.Sc. | L. Murphy |
| W. G. Brady | D. Murray |
| J. Broe | D. Nolan, L.R.C.P. & S.I., D.P.H. |
| L. A. Cahill | J. O'Brien |
| J. Cann | R. O'Brien |
| M. J. Carroll, B.Sc. | R. F. O'Connell, B.Sc., Ph.D. |
| S. O Cearbhaill | J. O'Connor |
| W. B. Chapple | P. O'Doherty |
| J. Clinch | J. O'Donnell |
| R. J. Cloughley, Grad.I.E.E. | J. T. O'Donnell |
| J. F. Colbert, A.M.I.E.E. | T. K. O'Donnell, M.Sc. |
| J. J. Connell | E. O'Dwyer, B.E. |
| N. Connolly | K. O'Halloran, B.Comm., H.Dip.Ed. |
| S. Cronin | T. O'Halloran |
| M. Daly | J. Du Barry |
| R. A. D'Arcy, B.Sc., M.I.C.I., A.R.I.C. | V. Duggan, A.M.I.E.E., A.M.I.C.E.I. |
| B. M. Deane | W. B. Dunne |
| W. de Lacy | Capt. B. Flanagan |
| J. Devon | J. J. Gunning |
| C. Donovan | J. Hamilton, A.M.Brit.I.R.E. |
| J. Dorney | E. C. Hanley, B.E. |
| E. D. Doyle, A.M.Brit.I.R.E. | J. Hanratty |
| B. Downes | D. Harrington, B.Sc. |
| J. J. McCowen | P. Harrington, A.M.I.E.E. |
| G. McCudden | M. Hayes |
| H. C. McElligott | L. Healy, B.E. |
| J. McGarry | P. Healy |
| T. J. McGibney | F. Hill, M.Sc., M.I.C.I., A.R.I.C. |
| E. J. McLaughlin, B.Sc. | H. Hodgins |
| E. J. McNamara | D. J. Hogan, Grad.I.E.E., Grad.Brit.I.R.E. |
| P. G. Macnamara, B.E. | |
| T. Mahon | |

Miss N. Horner
 J. Humphries
 F. Hurley, M.Sc.
 E. Kelly, B.Sc.
 T. J. Kelly
 D. Kelly, A.M.I.E.E.
 A. Kilfeather
 T. McCabe
 J. O'Keeffe, A.M.I.E.E.
 R. O'Kelly, M.Sc.
 J. O'Neill, B.E.
 D. O'Shea, B.Sc.
 C. P. O'Toole, M.Sc.
 A. W. Patterson
 J. V. Quinn, B.E.
 J. Ring, B.A.
 V. J. Roddy, A.M.I.E.E.

A. Ryan, B.E.
 Miss E. Ryan, F.B.O.A., F.S.M.C.,
 D.Orth.
 M. Ryan
 R. Ryder, M.E., B.Sc.
 A. Salvadori, B.Sc.
 T. Sheerin
 S. Slator
 R. Sloan
 M. Smyth
 P. Start, B.A., M.Sc., M.I.C.I.
 S. O Tallamhain
 D. G. Twomey, B.Sc.
 G. Waters, B.E.
 W. White
 J. J. Woods, A.M.Brit.I.R.E.,
 A.M.Brit.I.E.E.

REGULATIONS GOVERNING THE ADMISSION OF STUDENTS TO CLASSES AND COURSES

The attention of all students is directed to the General Regulations for Schools and Classes operating under the authority of the City of Dublin Vocational Education Committee. These Regulations are displayed on the Notice Board in the Hall and they govern Admission and Enrolment, Fees, Transfers, Formation and Continuance of Classes, Discipline, etc.

ENROLMENT

Intending students are required to show evidence of ability to profit by the instruction before being approved for admission to any stage of a particular Course. Acceptance for admission to any Course of Study must be certified on the standard enrolment form by the responsible Teacher-in-charge or by the Head of Department, Assistant Principal or Principal. The requisite Course Fees, together with the completed form of enrolment, must be lodged in the College office; the sole certification of enrolment in a Course is the official receipt for the Course Fees paid. Registration on Class Rolls and entry on the Course of Study provided by any Class may be made only on presentation to the Lecturer or Instructor in control of the Class of the appropriate official Course receipt and Class Ticket.

SESSIONAL EXAMINATIONS AND CLASS PROMOTION REGULATIONS

Examinations are held at end of Session in respect of each class-subject; no student shall be admitted to the Examinations who has not made at least three-fourths of the possible attendance, except in very special circumstances and at the discretion of the Principal. Promotion to a Higher Stage of instruction in any subject is contingent on passing the Sessional Examinations in the Lower Stage. An Experimental Record Book is required to be maintained by each student of a Laboratory Class; an assessment shall be made at end of Session of each student's progress in laboratory technique and experimental ability.

TRADE CLASSES

These classes are provided for the sole purpose of supplementing the practical trade training of persons actually employed at and engaged in the various operations of the trade. For admission to Trade Classes proof of actual employment in the several processes and operations of the trade will be certified to that effect from the Masters' Association and/or the official Trade Unions of the trade concerned.

Enrolment subsequent to Monday, 30th September, 1963, may be made only on the authority of the Principal.

WHOLE-TIME COURSES

**Ref.: W.R.S. Radio and Television
Service Work**

Teacher-in-Charge: B. J. O'CONNOR, A.M.BRIT.I.R.E.

Fee: £10 per session.

Senior Students' Union Subscription, 10/-.

This Course replaces the former two-year Course in Radio Service Work and is designed to meet the needs of students desiring full training and certification in Radio and Television Servicing. The Course will be conducted over a period of three sessions commencing in September, 1963. The second year of the old Course will be provided for those students who have successfully completed the first year of that Course. Applicants for this new Course should be not less than sixteen years of age and as a minimum qualification must hold the Day Vocational Certificate (Manual Training Group) in approved subjects, or the Intermediate Certificate (Secondary Schools) and, in addition, will be required to take a special Suitability Test.

The subjects of the first year of the Course are: Electricity, Radio Theory, Practical Radio, Mathematics, Physics, English and Religious Knowledge, involving $32\frac{1}{2}$ hours instruction per week. The subjects of the second and third years of the Course will be published in the Prospectus for the 1964/65 and 1965/66 sessions respectively. The subjects and allocation of hours for the second year of the old Course are: Electricity, 3; Radio Theory, 8; Practical Radio, $11\frac{1}{2}$; Electronics and Tutorial, 3; Physics, 2; Mathematics, 3; Business Methods, 1; Religious Knowledge, 1.

Students will sit for examinations in Radio and Television Servicing of the Department of Education at the end of each session of the new Course. They will also sit the Intermediate examination in Radio and Television Servicing of the Radio Trades Examination Board, London, at the end of the second session.

**Ref.: W.R.O. Radio Officers Certificate Course
(Mercantile Marine)**

Teacher-in-Charge: B. J. O'CONNOR, A.M.BRIT.I.R.E.

Fee: £18 per session or £6 per term.

Senior Students' Union Subscription, 10/-.

This Course is conducted in the Radio School, 51 Harcourt Street, which is part of the College of Technology, Kevin Street.

The Course prepares students for the examinations for a certificate of competency in Radiotelegraphy and Radiotelephony conducted by

WHOLE-TIME COURSES

the Department of Posts and Telegraphs. This Certificate confers eligibility for employment as a Radio Officer in the International Mercantile Marine Services.

The instruction includes Lectures and Practical Work in Mathematics, Electricity, Radio Communication and Direction Finding and training and practice in maintenance and servicing of Marine Radio equipment, in sending and receiving in the Morse Code, in operating procedures and traffic working, and in the Merchant Shipping Rules and the International Regulations. The College is equipped with approved types of Radio Apparatus as required by the Merchant Shipping Rules, 1953.

The duration of the period of training requisite for the acquirement of a First Class State Certificate of Competency is approximately two sessions. The Certificate Examinations are conducted in the College during December, March and June in each session by the Department of Posts and Telegraphs.

The Syllabuses followed in the Course are those published by the Department of Posts and Telegraphs in conformity with the International Radio Regulations (Telecommunications) Convention.

The subjects of the Course and the allocation of hours per week to each subject are as follows:—

FIRST YEAR : 1ST TERM : Mathematics, $3\frac{1}{2}$; Technical Electricity, 9; Morse, 16; International Regulations, $1\frac{1}{2}$; Typewriting, $1\frac{1}{2}$; Social Science, 1. 2ND AND 3RD TERMS : Mathematics, $3\frac{1}{2}$; Technical Electricity, 3; Radio Communication, 8; Radio Practical, $3\frac{1}{2}$; Rules, Regulations and Physical Geography, $1\frac{1}{2}$; Morse, 12; Social Science, 1.

SECOND YEAR : Mathematics, $3\frac{1}{2}$; Technical Electricity, 3; Radio Communication, 7; Radio Practical, $7\frac{1}{2}$; Rules and Operating Procedures, $1\frac{1}{2}$; Morse, 9; Social Science, 1.

ENROLMENT AND ENTRANCE EXAMINATIONS : Enrolments will be accepted in the first week of September each year and further enrolments may be accepted in the first week of the spring and summer terms if accommodation is available. Prospective students should have at least the Intermediate Certificate of the Department of Education or equivalent and may be required to pass an Entrance Examination of this standard in English and Mathematics during enrolment week.

Prospective students will be interviewed in the Radio School, 51 Harcourt Street on September 2nd—4th, 1963; January 7th—9th, 1964. Entrance examinations will be held on September 5th, 1963, and January 10th, 1964.

WHOLE-TIME COURSES

Ref.: W.R.R. Marine Radar Maintenance Certificate Course

Teacher-in-Charge: M. J. RICE, GRAD.BRIT.I.R.E.

Fee: £10 per term.

This course is of ten to twelve weeks' duration and provides 32½ hours a week of theory and practical work on up-to-date Marine Radar equipment. The course is open to those who have obtained a Certificate of Proficiency in Radiotelegraphy.

Enrolments are accepted during the first week of the Autumn, Spring and Summer Terms. Radio Officers seeking Study Leave may make advance bookings for a course. Examinations for the Marine Radar Maintenance Certificate, conducted by the Department of Posts and Telegraphs are held in the College at the end of each Course.

Ref.: W.S.U. Pre-University Course in Science

Teacher-in-Charge: W. BRODERICK, M.SC., H.DIP.ED., M.I.C.I.

Fee: £20 per session or £7 10s. 0d. per term.

Fee per single subject: £2 10s. 0d. per term.

Senior Students' Union Subscription, 10/-.

This one-year Course provides instruction in the basic sciences for students who propose to pursue University Courses in Science, Engineering, Medicine, etc., or who wish to prepare for examinations such as College of Surgeons Entrance, the Preliminary examinations of the Pharmaceutical Society of Ireland, Association of Ophthalmic Opticians, Ireland, etc. The syllabuses are those prescribed for the Leaving Certificate Honours of the Department of Education and the Matriculation examination of the National University of Ireland. The subjects of the Course and the allocation of hours to each subject per week are: Physics, 8½; Chemistry, 8; Mathematics, 6; Biology, 6; Social Science, 1.

Ref.: W.S.S. Senior Science Course

Teacher-in-Charge: M. J. SHEEHY, B.SC., A.INST.P.

Fee: £10 per session.

Senior Students' Union Subscription, 10/-.

This one-year Course provides education in the basic sciences for students who intend to pursue subsequent courses in Science or Electrical Engineering in the College. The subjects of the Course and number of hours allocated to each subject during each week are: Mathematics, 6; Applied Mathematics, 6; Physics, 6; Chemistry, 6;

WHOLE-TIME COURSES

English, $7\frac{1}{2}$; Social Science, 1. Prospective students should have passed the Leaving Certificate of the Department of Education (Secondary Branch) with passes in Mathematics, English and three other subjects. Applicants with Day Vocational Certificate (Manual Training Group) or the Intermediate Certificate of the Department of Education are normally required to complete successfully a preliminary one-year Course at the Technical Institute, Ringsend. All applicants will be required to take a General Suitability Test. At the end of the session, students sit the General Certificate of Education (Ordinary Level) of the University of London in the subjects English, Additional Pure Mathematics, Applied Mathematics, Physics and Chemistry. The College is a recognised centre for this examination. Successful students who intend to follow a career in Science should continue to Course W.S.I. below and those who intend to follow a career in Electrical Engineering should continue to Course S.E.E. Courses in Civil and Mechanical Engineering are provided in the College of Technology, Bolton Street.

SCHOLARSHIPS: The City of Dublin Vocational Education Committee offers scholarships to this Course. For details, see page 52 of this Prospectus.

Ref.: W.S.I. **Intermediate B.Sc. Degree Course**

Teacher-in-Charge: E. J. ROTHERY, B.SC., F.I.C.I., A.R.I.C.

Fee: £25 per session.

Senior Students' Union Subscription, 10/-.

This one-year Course provides education in Mathematics, Applied Mathematics, Physics and Chemistry for the General Certificate of Education (Advanced Level) of the University of London. Passes in three of these subjects at Advanced Level, together with a pass in English at Ordinary Level, exempts from the Intermediate Examination in Science of the University of London (Inter.B.Sc.). The College is a recognised centre for these Advanced Level Examinations. Prospective students must have already obtained the General Certificate of Education at Ordinary Level in English, Additional Pure Mathematics, Applied Mathematics, Physics, and Chemistry or attained an approved equivalent standard.

The subjects of the Course and the number of hours per week allocated to each subject are: Mathematics, $7\frac{1}{2}$; Applied Mathematics, 8; Physics, 8; Chemistry, 8; French, 1; Industrial Organisation, 1; Philosophy, 1; Tutorial, $3\frac{1}{2}$; General Studies, 1. Each

WHOLE-TIME COURSES

student has the choice of taking *either* Applied Mathematics or Chemistry—the two subjects *cannot* be taken together. Successful students of the Course obtain employment in industries which utilise scientific processes, and by subsequent attendance at appropriate evening classes in the College may proceed to the B.Sc. (External) Degree of the University of London. (See Courses 23 and 24 on page 33.

Ref.: W.S.O. Ophthalmic and Dispensing Opticians' Course

Teacher-in-Charge: K. P. CULLITON, F.A.O.I.

Fee: £25 per session.

Students' Union Subscription, 10/-.

This Course provides for the education and training of Ophthalmic and Dispensing Opticians. Consequent on the Opticians Act, 1956, it is now necessary for all Ophthalmic and Dispensing Opticians to be registered under the Act by Bord na Radharcmhastoiri. Future entrants to these professions must attend courses of training and pass examinations approved by Bord na Radharcmhastoiri. The first two years of the Course are common to both Ophthalmic and Dispensing Optician students. The third year of the Course is provided for Ophthalmic Optician students only. The Association of Ophthalmic Opticians, Ireland, and the Irish Association of Dispensing Opticians co-operate with the Vocational Education Committee in organising the Course, which is approved by Bord na Radharcmhastoiri. At the end of each year of the Course, students will sit examinations conducted or approved by the Bord. Prospective students must have passed the Matriculation or Leaving Certificate in Irish, English, Mathematics, and two other subjects, or possess an approved equivalent standard of general education. The subjects of the Course and the allocation of hours per week to each subject are:—

FIRST YEAR: Mathematics, 6; Physics, 7; Chemistry, 6; Biology, 1 term, 9; Anatomy and Physiology, 2 terms, 9; Workshop Practice, 3; Social Science, 1½.

SECOND YEAR: Light and Optical Instruments, 1st term, 4½; 2nd term, 7½. Geometrical Optics: 1st term, 4½; 2nd term, 2½; 3rd term, 7. Anatomy and Physiology: 1st term, 7½; 2nd term, 4½; 3rd term, 4½. Physiological Optics: 1st term, 6; 2nd term, 6; 3rd term, 9. Optical Dispensing: 1st term, 7½; 2nd term, 7½; 3rd term, 6. Optometry: 2nd term, 1½; 3rd term, 3. Ethics, Law and Elementary Commerce, 1½; Social Science, 1½.

THIRD YEAR: Ophthalmic Optician students only—Optometry (Theory, Methods, Practice), 16½; Physiological Optics, 3; Recognition of the Existence of Abnormal Conditions, 5½; Orthoptics, 3;

WHOLE-TIME COURSES

Ophthalmic Instruments, $1\frac{1}{2}$; Environmental Optics, $1\frac{1}{2}$; Social Science, $1\frac{1}{2}$.

Enrolments in the first year of this Course will be accepted only in alternate years, viz., September, 1963; September, 1965.

Ref.: W.R.T.T.

Telecommunications and Electronics Technicians' Course

Teacher-in-Charge: B. J. O'CONNOR, A.M.BRIT.I.R.E.

Fee: £15 per session.

This Course, conducted over a period of three sessions, is designed to meet the needs of students who wish to enter the field of telecommunication and electronics as Technicians.

At the end of the second year of the Course, students will sit for the City and Guilds of London Institute Telecommunications Technicians' Certificate examinations. Students who successfully pass the sessional examinations in addition to the above may proceed to the third year of the Course to prepare for the City and Guilds of London Institute's Supplementary Studies in Electronics and Communications.

Prospective students should, as a minimum, have passed the Leaving Certificate in Mathematics and English or have attained an equivalent standard in each of these subjects. The subjects of the Course and the allocation of hours per week to each subject are:—

FIRST YEAR: Mathematics, $3\frac{1}{2}$; Applied Mathematics, 2; Electricity (Lecture), $4\frac{1}{2}$; Electricity (Laboratory), 2; Physics (Lecture), 2; Physics (Laboratory), 2; Electronics (Lecture), 3; Electronics (Laboratory), 5; Drawing, $2\frac{1}{2}$; General Studies, 3; Workshop Practice, 3.

SECOND YEAR: Mathematics, $4\frac{1}{2}$; Physics (Lecture), 2; Physics (Laboratory), 2; Electronics (Lecture), $3\frac{1}{2}$; Radio and Electronics (Laboratory), 10; Circuit Theory, 2; Radio Communication, $1\frac{1}{2}$; Transmission and Propagation, 1; Measurements, $1\frac{1}{2}$; Electricity (Lecture), $1\frac{1}{2}$; General Studies, 3.

THIRD YEAR: Will be offered in the 1964-65 session.

SANDWICH COURSES

*Ref. : S.E.E. Electrical Engineering Course
College-based Sandwich Course*

Teacher-in-Charge : T. SHORT, A.M.I.E.E., GRAD.BRIT.I.R.E.

Fee : £20 per session.

Senior Students' Union Subscription, 10/-.

This course, conducted over four sessions, is approved by the Institution of Electrical Engineers and prepares students for the Institution's Graduateship examination (Grad.I.E.E.). At the end of each of the first three sessions, students will be placed with engineering firms and organisations to acquire approved practical engineering training. Approximately 50 weeks will be spent in this manner and in nearly every case the firm will give a weekly allowance to the student. Attendance, conduct and progress while undergoing practical training are subject to the same disciplinary regulations as attendance at the course. Prospective students must have passed the Leaving Certificate with Honours in Mathematics and passes in Applied Mathematics and Physics with Honours in one, Honours in another subject, and passes in English and another subject or the General Certificate of Education at Ordinary Level in the subjects English, Additional Pure Mathematics, Applied Mathematics, Physics and Chemistry or have attained an equivalent standard in each of these subjects (see Course W.S.S.). The duration of each session, the subjects of the Course and the allocation of hours per week to each subject are :—

FIRST YEAR : Beginning of September to end of June. Mathematics ($7\frac{1}{2}$ hours), Applied Mathematics (8 hours), Physics (8 hours), Workshop Practice (3 hours), Drawing (3 hours), Industrial Organisation (1 hour), Philosophy (1 hour), General Studies (1 hour). Students are required to pass the General Certificate of Education at Advanced Level in Mathematics, Applied Mathematics and Physics at the end of the session. Practical Engineering Training : Beginning of July to the end of September.

SECOND YEAR : Beginning of October to mid-April. Mathematics ($4\frac{1}{2}$ hours), Applied Mechanics ($4\frac{1}{2}$ hours), Heat, Light and Sound (6 hours), Principles of Electricity (5 hours), Electrical Engineering (3 hours), Electronics ($2\frac{1}{2}$ hours), Engineering Drawing (3 hours), Theory of Machines (1 hour), Properties and Strength of Materials (1 hour), Industrial Organisation (1 hour), Philosophy (1 hour). Students are required to pass the Part I Examination of the Institution of Electrical Engineers at the end of the session. Practical Engineering Training : Beginning of May to the end of August.

THIRD YEAR : Beginning of September to mid-April. Mathematics ($4\frac{1}{2}$ hours), Engineering Physics (6 hours), Electrical Engineering :

SANDWICH COURSES

Machines (6 hours), Measurements (5 hours), Circuit Theory ($1\frac{1}{2}$ hours), Field Theory ($1\frac{1}{2}$ hours), Electronics (6 hours), Industrial Organisation (1 hour), Philosophy (1 hour). Students are required to pass the Part II Examination of the Institution of Electrical Engineers at the end of the session. Practical Engineering Training: Beginning of May to the end of September.

FOURTH YEAR: Beginning of October to the end of June. Mathematics (3 hours), Electrical Engineering: Measurements (6 hours), Machines and Utilisation of Electrical Plant (8 hours), Circuit Theory (2 hours), Field Theory (3 hours), Electronics ($8\frac{1}{2}$ hours), Industrial Organisation (1 hour), Philosophy (1 hour). Students sit the Part III Examination of the Institution of Electrical Engineers at the end of the session.

SCHOLARSHIPS: The City of Dublin Vocational Education Committee offers scholarships to various years of this Course. For details, see page 52 of this Prospectus.

The attention of students of the final year of the Course is directed to the Mallin Memorial Prize, which is described on page 52 of this Prospectus.

**Ref.: S.E.T. Electrical Engineering
Technicians' Course**

Teacher-in-Charge: T. SHORT, A.M.I.E.E., GRAD.BRIT.I.R.E.

Fee: £7 10s. 0d. per stage.

This Course provides for the training of Electrical Engineering Technicians to meet the needs of Irish Industry. The Course is conducted over four stages and each stage consists of 15 weeks whole-time instruction. The Course prepares students for the Department of Education's examination in Advanced Electrical Engineering Practice, and also the City and Guilds of London Institute's Final Examination in Electrical Engineering Practice. Students are expected to sit the City and Guilds of London Institute Electrical Technicians' Certificate Examination at the end of the third year.

Prospective students will be selected only from second year Electrical Apprentices who have made satisfactory progress during their first two years of apprenticeship or from other applicants who are deemed to possess an equivalent standard of general and technical or scientific education.

The subjects of the Course and the allocation of hours per week to each subject are:—

DAY COURSE

FIRST YEAR: Mathematics, 4; Applied Mathematics, $3\frac{1}{2}$; Principles of Electricity, 9; Physics, 6; Drawing, 3; Workshop Practice, 3; Installation Theory, 2; English, 1; Social Science, 1.

SANDWICH COURSES

SECOND YEAR : Mathematics, 4; Applied Mathematics, $3\frac{1}{2}$; Principles of Electricity, 9; Physics, 6; Workshop Practice, 3; Drawing, 3; Installation Theory, 2; English, 1; Social Science, 1.

THIRD YEAR : Mathematics, 3; Applied Mathematics, $1\frac{1}{2}$; Electrical Measurements, $4\frac{1}{2}$; Physics, $4\frac{1}{2}$; Workshop Practice, 3; Electrical Engineering, 5; Electronics, $3\frac{1}{2}$; Circuit Theory, 2; Installation Theory, 2; Field Theory, $1\frac{1}{2}$; English, 1; Social Science, 1.

FOURTH YEAR : Mathematics, 3; Applied Mathematics, $1\frac{1}{2}$; Electrical Measurements, $4\frac{1}{2}$; Physics, $4\frac{1}{2}$; Workshop Practice, 3; Electrical Engineering, 5; Electronics, $3\frac{1}{2}$; Circuit Theory, 2; Installation Theory, 2; Field Theory, $1\frac{1}{2}$; English, 1; Social Science, 1.

Ref.: S.R.P.O. Post Office Engineering

Teacher-in-Charge : T. P. O'BRIEN, A.M.BRIT.I.R.E.

Fee : £5 per stage.

This course is conducted by arrangement with the Department of Posts and Telegraphs and provides technical instruction for Post Office Technician Trainees. The scheme has the co-operation of the Irish Post Office Engineering Union. The course extends over three stages of whole-time instruction (10—15 weeks each) supplemented, between stages, by a correspondence course of approximately 30 weeks. The subjects of the Course and the allocation of hours to each subject are:—

FIRST YEAR : Electricity, 12; Physics, $4\frac{1}{2}$; Mathematics, 6; English, $2\frac{1}{2}$; Irish, 1; Drawing, 3; Religious Knowledge, 1; Tutorial, 3.

SECOND AND THIRD YEARS : Electricity, $7\frac{1}{2}$; Physics, $4\frac{1}{2}$; Electronics, $7\frac{1}{2}$; Mathematics, 6; English, 3; Irish, 1; Religious Knowledge, 1; Tutorial, $2\frac{1}{2}$.

EXTERNAL AREAS : Technician Trainees from external areas are admitted under special fees by arrangement with the Vocational Education Committees concerned.

The Department of Posts and Telegraphs and the Irish Post Office Engineering Union both offer prizes for students in each year of the Course. See page 53 for details.

Ref.: S.E.S.B. Electrical Installation Work

Teacher-in-Charge : L. TRUNDLE, Full Technological Certificate (E.E.P.) (City and Guilds of London Institute).

Fee : £5 per stage.

This Course provides for the full technical training of Apprentice Electricians and has the co-operation of the Trade Unions and the Electricity Supply Board. Apprentices receive one term's instruction

SANDWICH COURSES

(10-15 weeks—33 hours per week) during each of the first four years of apprenticeship. Each stage of whole-time instruction is associated with a correspondence course carried on over an additional period of approximately 35 weeks. The syllabuses of instruction are based on those of the Department of Education for Electrical Installation Work and Electrical Engineering Practice. The subjects of the Course and the allocation of hours are as follows for each year of the Course: Practical Installation and Cable Jointing, 6 or 9; Electricity, 5 or 8; Installation Theory, 1; Engineering Science, 3; Drawing, 3; Mathematics, 6 or 3; Workshop Practice and Technology, $6\frac{3}{4}$; English, $1\frac{1}{2}$; Religious Knowledge, $\frac{1}{2}$.

Students are required to sit the following examinations of the Department of Education: *At end of Second Stage*: Electrical Engineering Practice, Elementary D.C. and A.C., and Junior Trade Certificate in Electrical Installation Work (Theory and Practical). *At end of Third Stage*: Electrical Engineering Practice, Intermediate D.C. *At end of Fourth Stage*: Electrical Engineering Practice, Intermediate A.C., and Senior Trade Certificates in Electrical Installation Work (Theory and Practical).

EXTERNAL AREAS: Student Apprentices from External Areas are admitted under special fees by arrangement with the Vocational Education Committee concerned.

A special fifth-year course is provided for selected students. This course extends over five weeks full-time and includes theoretical and practical instruction in Motors and Switchgear, Metering, Earthing, Refrigeration and Special Appliances. The fee for this year of the Course is £5.

The Electricity Supply Board offers prizes for students of the Course. See page 53 for details.

Ref.: S.E.A.L. Aircraft Electrical Practice

Teacher-in-Charge: J. J. FARRELL, GRAD.I.E.E.

Fee: £15 per session.

This Course provides for the full technical training of Apprentice Electricians in the Aircraft Industry, and has the co-operation of the Trade Unions and Aer Lingus Teoranta.

The Course extends over a period of four sessions. The subjects of the Course and the allocation of hours per week to each subject are as follows:—

FIRST AND SECOND YEARS: Electrical Principles ($7\frac{1}{2}$ hours), Practical Installation Work ($3\frac{1}{2}$ hours), Aircraft Installations (3 hours), Metalwork ($3\frac{1}{2}$ hours), Mathematics (3 hours), Engineering Science (5 hours), English (2 hours), French (2 hours), Drawing (3 hours), Social Science (1 hour), and Physical Training (1 hour).

THIRD AND FOURTH YEARS : To be arranged.

EXTERNAL EXAMINATIONS : At the end of each session students are expected to sit for the external examinations as stipulated below.

FIRST YEAR : Department of Education Examinations in Electrical Engineering D.C. (Elementary), Electrical Installation Work (Junior) Practical, Mathematics (Elementary), Machine Drawing (Elementary).

SECOND YEAR : Department of Education Examinations in Electrical Engineering A.C. (Elementary) and D.C. (Intermediate), Electrical Installation Work (Junior) Written, Mathematics (Intermediate), Fitters' Work (Junior).

City and Guilds of London Institute Examinations in Electrical Engineering D.C. (Intermediate), Aircraft Electrical Practice (Part I), Electrical Technicians' Examination (Intermediate).

THIRD YEAR : Department of Education Examinations in Electrical Engineering A.C. (Intermediate), Machine Drawing (Intermediate), Electrical Installation Work, Written and Practical (Senior).

City and Guilds of London Institute Examinations in Electrical Engineering A.C. (Intermediate), Electrical Installation Work (Course B).

FOURTH YEAR : City and Guilds of London Institute Examinations in Aircraft Electrical Practice (Part II), Electrical Installation Work (Course C), Electrical Technicians' Course (Final).

**Ref. : S.E.M.S. Electrical Installation Work
 (Special Summer Course)**

Teacher-in-Charge : L. TRUNDLE, Full Technological Certificate
(E.E.P.) (City and Guilds of London Institute).

A special summer Course of 4-5 weeks whole-time instruction is provided for apprentice electricians employed by Bord na Mona and Comhlucht Siuicre Eireann Teo. The Course consists of four such stages, which are conducted in the College commencing early in July each year. At the end of the second stage of the Course, students sit the Department of Education's Junior Trade Certificate Examination in Electrical Installation Work (Theory and Practical) and Elementary D.C. and at the end of the fourth stage they sit the Senior Trade Certificate Examination and Elementary A.C.

Fees for the Course are specially arranged with the companies and the Vocational Education Committees for the areas in which the students normally reside.

PART-TIME DAY RELEASE COURSES

Ref. : P.E.I. Electrical Installation Work

Fee : £4 per session.

This Course, conducted on one or more full days and two or three evenings per week, provides technical training for Electrical Apprentices.

FIRST YEAR

Teacher-in-Charge : P. O'SHEA.

GROUP (A)

Day	Time	Subject	Room	Teacher
Monday	7.30-10.00	Engineering Science I - -	8a	P. O'Shea T. Mahon
Wednesday	7.30- 9.00	Drawing - - - -	14	J. Connell
	9.00-10.30	Engineering Materials - -	14	J. Connell
Friday	9.00-10.00	Electricity - - - -	4	P. O'Shea
	10.00-10.30	Religious Knowledge -	4	Rev. M. J. Morahan, S.J.
	10.30-12.30	Electricity - - - -	4	P. O'Shea
	2.00- 3.00	English and Technical Reports -	4	B. Conway
	3.00- 5.00	Practical Mathematics - -	4	S. O Tallamhain
	7.30-10.00	Practical Installation I - -	33	D. McManus

GROUP (B)

Day	Time	Subject	Room	Teacher
Wednesday	7.30- 9.00	Drawing - - - -	14	J. Connell
	9.00-10.00	Engineering Materials - -	14	J. Connell
Thursday	7.30-10.00	Engineering Science - -	4	P. O'Shea
Friday	9.00-10.00	English and Technical Reports -	4	B. Conway
	10.00-10.30	Religious Knowledge -	4	Rev. P. Dunne, S.J
	10.30-12.30	Practical Mathematics - -	5	—
	2.00- 5.00	Electricity - - - -	3	L. Trundle
	7.30-10.00	Practical Installation I - -	33	D. McManus

PART-TIME DAY RELEASE COURSES

SECOND YEAR

Teacher-in-Charge : R. KELLY, Full Technological Certificate
(E.E.P.) (City and Guilds of London Institute).

GROUP (A)

Day	Time	Subject	Room	Teacher
Tuesday	9.00-12.30	Electricity - - - -	4	R. Kelly
	12.00-12.30	Religious Knowledge - -	4	Rev. P. Dunne, S.J.
	2.00- 3.00	English and Technical Reports -	4	B. Conway
	3.00- 5.00	Practical Mathematics - -	4	---
	7.30- 9.00	Drawing - - - -	14	D. Naessens
	9.00-10.00	Engineering Materials - -	14	D. Naessens
Wednesday	7.30-10.00	Practical Installation II - -	33	I. Tighe
Friday	7.30-10.00	Engineering Science II - -	5	A. Ryan

GROUP (B)

Day	Time	Subject	Room	Teacher
Tuesday	9.00-10.00	English and Technical Reports -	4	B. Conway
	10.00-12.00	Practical Mathematics - -	5	J. C. Calnan
	12.00-12.30	Religious Knowledge - -	4	Rev. P. Dunne, S.J.
	2.00- 5.00	Electricity - - - -	5	---
	7.30- 9.00	Drawing - - - -	14	D. Naessens
	9.00-10.30	Engineering Materials - -	14	D. Naessens
Wednesday	7.30-10.00	Practical Installation—II - -	33	I. Tighe
Friday	7.30-10.00	Engineering Science II - -	5	A. Ryan

At the end of the second year students are required to sit the Electrical Installation Work Junior Written and Practical and Electrical Engineering Practice D.C. Elementary examinations of the Department of Education, and may sit the City and Guilds of London Institute Electrical Technicians' Intermediate examination.

PART-TIME DAY RELEASE COURSES

Students who successfully complete the second year of the Course and pass with honours in the day class examination may be permitted to enrol in the Part-time Day Senior Science Course, P.S.S., with a view to subsequent enrolment in the Part-time Day Electrical Engineering Course, P.E.E.

THIRD YEAR

Teacher-in-Charge: M. FARRELL, Full Technological Certificate (E.E.P.) (City and Guilds of London Institute).

GROUP (A)

Day	Time	Subject	Room	Teacher
Tuesday	7.30-10.00	Practical Installation III - -	33	I. Tighe
Wednesday	9.00-10.30	Electricity - - -	3	J. Downes
	10.30-11.00	Religious Knowledge - -	5	Rev. P. Dunne, S.J.
	11.00-12.30	Electricity - - -	3, 6	M. Farrell, R. Kelly
	2.00- 3.00	Electricity - - -	3	J. Downes
	3.00- 4.00	Electricity - - -	3	P. O'Shea
	4.00- 5.00	English - - -	5	T. O'Halloran
Thursday	7.30- 9.30	Mathematics (3) - -	8c	J. A. O'Donovan
Friday	7.30- 9.00	Engineering Science III - -	4	V. Duggan
	9.00-10.00	Electrical Installation III - -	4	V. Duggan

GROUP (B)

Day	Time	Subject	Room	Teacher
Tuesday	7.30-10.00	Practical Installation III - -	33	E. McNamara
Wednesday	9.00-10.30	Electricity - - -	5, 6	M. Farrell, R. Kelly
	10.30-11.00	Religious Knowledge - -	5	Rev. P. Dunne, S.J.
	11.00-12.30	Electricity - - -	5	J. Downes
	2.00- 3.00	Electricity - - -	5	P. O'Shea
	3.00- 4.00	Electricity - - -	5	J. Downes
	4.00- 5.00	English - - -	5	T. O'Halloran
Thursday	7.30- 9.30	Mathematics (3) - -	8c	J. A. O'Donovan
Friday	7.30- 9.00	Engineering Science III - -	4	V. Duggan
	9.00-10.00	Electrical Installation III - -	4	V. Duggan

At the end of this year students are required to sit the Electrical Installation Work Senior Written and Practical and the Electrical Engineering Practice D.C. Intermediate and A.C. Elementary examinations of the Department of Education and are expected to sit the Electrical Installation Work Course B examination of the City and Guilds of London Institute.

PART-TIME DAY RELEASE COURSES

Teacher-in-Charge: J. J. FARRELL, GRAD.I.E.E.

FOURTH YEAR GROUP (A)

Day	Time	Subject	Room	Teacher
Monday	7.30-10.00	Electrical Power Equipment -	5	M. Ryan
Tuesday	9.00-12.30	Testing Methods (Power)—Laboratory - - - -	4, 6	J. J. Farrell
	2.00- 5.00	Electrical Power Equipment—Laboratory - - - -	4, 6	J. J. Farrell, M. Farrell
Thursday	9.00-10.30	Testing Methods (Power) - -	3	J. J. Farrell
	10.30-11.00	Religious Knowledge - -	3	Rev. M. J. Morahan, S.J.
	11.00-12.30	Electrical Power Equipment -	3	M. Farrell
	2.00- 3.30	Testing Methods (Power) - -	3	J. J. Farrell
	3.30- 5.00	Electrical Power Equipment -	3	M. Farrell
Friday	7.30-10.00	Mathematics (4) - - - -	19	—
	7.30-10.00	Electrical Engineering Practice (Special Techniques) - -	15	D. Kiely

GROUP (B)

Day	Time	Subject	Room	Teacher
Monday	7.30-10.00	Electrical Power Equipment -	5	M. Ryan
Thursday	9.00-10.30	Electrical Power Equipment -	19	M. Ryan
	10.30-11.00	Religious Knowledge - -	3	Rev. M. J. Morahan, S.J.
	11.00-12.30	Testing Methods (Power) - -	19	J. J. Farrell
	2.00- 3.30	Electrical Power Equipment -	5	M. Farrell
	3.30- 5.00	Testing Methods (Power) - -	5	J. J. Farrell
	7.30-10.00	Mathematics (4) - - - -	19	—
	7.30-10.00	Electrical Engineering Practice (Special Techniques) -	15	D. Kiely

At the end of this year of the Course all students are required to sit the Electrical Engineering Practice, A.C. Intermediate Examination of the Department of Education and the Electrical Installation Work, Course C, Examination of the City and Guilds of London Institute. Students in Group (A) also sit the City and Guilds of London Institute Electrical Technicians' Final Examination.

Ref.: P.E.H.

Electrical Housecraft

October—May.

Fee: £5 per session.

Teacher-in-Charge: L. TRUNDLE, Full Technological Certificate (E.E.P.) (City and Guilds of London Institute).

This Course is designed to meet the requirements of E.S.B. trainee demonstrators, and of other ladies, who wish to sit for the Electrical Housecraft Certificate Examination of the Electrical Association for Women, London. The Course will be conducted on one half-day (3 hours) per week during one session. Prospective students must

PART-TIME DAY RELEASE COURSES

hold approved qualifications in Domestic Science subjects or Hotel and Catering subjects or in Institutional Management.

Ref.: P.E.E. Electrical Engineering

September—June

Fee : £4 per session.

Teacher-in-Charge : T. SHORT, A.M.I.E.E., GRAD.BRIT.I.R.E.

This Course prepares students for the Graduateship Examination of the Institution of Electrical Engineers (Grad.I.E.E.) and is conducted on one full day and two evenings per week. It is provided for electrical apprentices and others in electrical engineering employment who satisfy the regulations for student membership of the I.E.E. The course is approved by the Institution of Electrical Engineers as suitable for preparation for entry to the Institution's examinations.

The attention of prospective students is directed to Course No. 42 on page 41 of this Prospectus and to the corresponding Day Release Course P.S.S. on page 28.

FIRST YEAR

Day	Time	Subject	Room	Teacher
Monday	7.00- 8.30	Mathematics - - - -	—	P. Gallagher
	8.30-10.00	Physics - - - -	—	—
Wednesday	7.00- 8.30	Physics - - - -	—	—
	8.30-10.00	Mathematics - - - -	—	P. Gallagher
Friday	9.00-10.00	Mathematics - - - -	—	P. Gallagher
	10.00-12.30	Drawing - - - -	—	—
	2.00- 5.00	Physics - - - -	—	—

SECOND YEAR

Day	Time	Subject	Room	Teacher
Monday	7.00- 8.30	Electricity - - - -	17	T. Short
	8.30-10.00	Applied Mechanics - - - -	17	P. G. Macnamara
Wednesday	7.00- 8.30	Electricity - - - -	—	T. Short
	8.30-10.00	Applied Mechanics - - - -	—	P. G. Macnamara
Friday	9.00-10.30	Mathematics - - - -	—	—
	10.30-12.30	Drawing - - - -	—	—
	2.00- 3.00	Physics - - - -	—	—
	3.00- 5.00	Laboratory - - - -	—	T. Cronin, J. M. Flood

PART-TIME DAY RELEASE COURSES

THIRD AND FOURTH YEARS

Day	Time	Subject	Room	Teacher
Monday	7.00- 8.30	Mathematics - - - -	—	P. G. Macnamara
	8.30-10.00	Electrical Machines - - -	—	T. Short
Wednesday	7.00- 8.30	Mathematics - - - -	—	P. G. Macnamara
	8.30-10.00	Electronics - - - -	—	B. J. O'Connor
Friday	9.00-10.00	Field Theory - - - -	—	—
	10.00-11.30	Physics - - - -	—	—
	11.30-12.30	Circuit Theory - - - -	—	—
	2.00- 5.00	Laboratory - - - -	—	T. Short F. Brennan, T. O'Flaherty

FIFTH AND SIXTH YEARS

Day	Time	Subject	Room	Teacher
Monday	7.00- 8.30	Mathematics - - - -	—	—
	8.30-10.00	Utilisation of Electrical Energy -	—	R. Ryder
Wednesday	7.00- 8.30	Electronics - - - -	—	B. J. O'Connor
	8.30-10.00	Measurements - - - -	—	T. Short
Friday	9.00-12.30	Circuit Theory and Electronics -	—	B. J. O'Connor
		or		
		Field Theory and Measurements -	—	T. Short,
	2.00- 5.00	Laboratory - - - -	—	T. Short F. Brennan, T. O'Flaherty

Ref.: P.R.C. Projection Science for Cinema Apprentice Operators

(Session: October to May).

Teacher-in-Charge: B. J. O'CONNOR, A.M.BRIT.I.R.E.

Fee: £2 10s. 0d. per session.

The Course provides technical training for Cinema Apprentices employed in the Dublin Area, and is organised in co-operation with the Irish Transport and General Workers' Union (Cinema Branch), and the Theatre and Cinema Association (Ireland). The Course extends over three Sessions and provides a minimum of five hours of instruction per week in English, Mathematics, General Science, Electricity, Light and Sound Equipment. An apprentice operator is permitted a maximum of five sessions to complete the Course satisfactorily.

FIRST YEAR: English, Mathematics, and General Science: Monday, Wednesday and Thursday, 10.30-12.30.

SECOND YEAR: Electricity and Light: Tuesday and Friday, 10-12.30.

THIRD YEAR: Electricity and Sound Equipment: Tuesday and Friday, 10-12.30.

PART-TIME DAY RELEASE COURSES

The Theatre and Cinema Association (Ireland) and the Irish Transport and General Workers' Union offer prizes for students of the Course. See page 53 for details.

Ref.: P.S.B. Bakery Practice

Teacher-in-Charge: S. ANTHONY, TECH.DIP. CITY AND GUILDS.

Fee: £2 10s. 0d. per session.

The Courses provide instruction in Breadmaking and Flour Confectionery for Bakery Apprentices.

Day	Time	Subject	Room	Teacher
Monday	9.30-12.30	} Bakery Practice I - -	20	—
	2.00- 5.00		28	K. Halloran
	7.00- 7.45		28	Rev. P. Dunne, S.J.
	7.45- 8.15		28	R. A. D'Arcy
Tuesday	9.00-12.30	} Bakery Practice III (A) -	20	S. Anthony
	2.00- 5.00		20	K. T. O'Halloran
	7.00- 7.45		20	Rev. P. Dunne, S.J.
	7.45- 8.15		20	—
Wednesday	9.30-12.30	} Bakery Practice II - -	20	S. Anthony
	2.00- 5.00		17	K. T. O'Halloran
	7.00- 7.45		17	Rev. P. Dunne, S.J.
	7.45- 8.15		17	—
Thursday	9.00-12.30	} Bakery Practice III (B) -	20	S. Anthony
Friday	2.00- 5.00		20	—

Students sit the Intermediate Examination in Breadmaking and Flour Confectionery of the City and Guilds of London Institute at the end of the second year and the Final Examinations in Breadmaking, Flour Confectionery and Bakery Science, at the end of the fourth year of the Course. The Irish Bakers', Confectioners' and Allied Workers' Union, the Dublin Master Bakers' Committee and the Guild of Irish Bakers, offer cups and prizes for students of the Course. See page 54 for details.

Ref.: P.S.L. Laboratory Technicians' Work

Teacher-in-Charge: L. BREEN, B.S.C., DIP.CHEM.TECH.

Fee: £2 10s. 0d. per session.

This Course provides training for laboratory attendants and assistants who work in universities, research institutes, industrial firms and schools and is primarily intended for those working in chemical

PART-TIME DAY RELEASE COURSES

laboratories. Students sit the Intermediate examination of the City and Guilds of London Institute in Laboratory Technicians' Work at the end of the course. Classes are conducted on two half-days and two evenings per week over a period of three sessions of approximately 34 weeks each. Prospective students should be at least 16 years of age and have the Vocational Certificate (Manual Training Group) in approved subjects or the Intermediate Certificate (Secondary Schools). Notice is given that as from September, 1962, prospective students MUST hold ONE of these educational qualifications.

This Course is approved by the Institute of Chemistry of Ireland, and successful students of the Course will be eligible for enrolment as recognised Laboratory Technicians by the Institute of Chemistry of Ireland.

1ST TERM: September 16th—November 29th.

2ND TERM: December 2nd—February 28th.

3RD TERM: March 2nd—June 5th.

FIRST YEAR

Day	Time	Subject	Room	Teacher
Monday	7.00-10.00	Glassblowing (1st Term) - -	1	W. G. Brady
		Metalwork (2nd and 3rd Terms) -	1	P. Connell
Tuesday	2.00- 5.00	Chemistry - - - -	22	L. Breen
Wednesday	2.00- 3.00	English - - - -	12	B. Conway
	3.00- 5.00	Physics - - - -	12	L. Breen
Friday	7.00- 8.30	Mathematics - - - -	14	D. Naessens
	8.30-10.00	Drawing - - - -	14	D. Naessens

SECOND YEAR

Day	Time	Subject	Room	Teacher
Monday	2.00- 5.00	Chemistry (1st Term) - -	22	L. Breen
		Electricity (2nd and 3rd Terms) -		L. Breen
Thursday	2.00- 3.00	English - - - -	12	B. Conway
	3.00- 5.00	Physics - - - -	12	L. Breen
	7.00-10.00	Maths. and Drawing (1st Term) -	14	D. Naessens
	7.00-10.00	Biology (2nd and 3rd Terms) -	—	—
Friday	7.00-10.00	Metalwork (1st Term) - -	1	N. Goulding
		Woodwork and Plastics (2nd Term)	1	P. Masterson, B. Dunne
		Glassblowing (3rd Term) - -	1	W. G. Brady

PART-TIME DAY RELEASE COURSES

THIRD YEAR

Day	Time	Subject	Room	Teacher
Monday	7.00-10.00	Specialised Lab. Techniques -	22	L. Breen
Wednesday	9.30-12.30	Electricity (1st and 2nd Terms) -	15	F. Nolan
		Photography (3rd Term) -	15	F. Nolan
Friday	2.00- 5.00	Physics (Light) (1st Term) -	8a	L. Breen
		Lab. Organisation (2nd Term) -	8a	L. Breen
		Specialised Laboratory Techniques (3rd Term) - - - -	22	L. Breen
	7.00-10.00	Metalwork (1st Term) -	1	P. Connell
		Woodwork and Plastics (2nd Term)	1	P. Masterson, B. Dunne
		Glassblowing (3rd Term) -	1	W. G. Brady

Ref.: P.S.S. Senior Science Course

Teacher-in-Charge: M. J. SHEEHY, B.SC., A.INST.P.

Fee: £3 per session.

This one-year Course prepares students for the General Certificate of Education Examination at Ordinary Level in the subjects Additional Pure Mathematics, Physics and Chemistry or Applied Mathematics. Prospective students should have already obtained, as a minimum, the Day Vocational Certificate (Manual Training Group) of the Department of Education with passes in Irish, English, Mathematics, Mechanical Drawing, Mechanics and Heat or Magnetism and Electricity, and Metalwork or Woodwork, or the Intermediate Certificate of the Department of Education. All applicants for the Course will be required to pass an entrance examination.

Day	Time	Subject	Room	Teacher
Wednesday	2.0-4.0	Physics - - - -	24	P. A. Start
	4.0-5.0	Mathematics - - - -	24	—
Friday	2.0-4.0	Chemistry or - - - -	24	P. A. Start
		Applied Mathematics - - - -	17	—
	4.0-5.0	Mathematics - - - -	24	—

Students also attend the evening classes of Course No. 20 or Course No. 42.

Ref.: P.S.I. Intermediate B.Sc. Course

Teacher-in-Charge: W. BRODERICK, M.SC., H.DIP.ED., M.I.C.I.

Fee: £4 per session.

This one-year Course prepares students for the General Certificate of Education at Advanced Level in Mathematics, Physics and Chemistry. Prospective students must have passed in English, Additional Pure Mathematics, Physics and Chemistry at Ordinary Level or have attained an approved equivalent standard in these subjects.

PART-TIME DAY RELEASE COURSES

Day	Time	Subject	Room	Teacher
Monday	7.00- 8.30	Mathematics - - - -	—	P. Gallagher
	8.30-10.00	Physics - - - -	—	—
Tuesday	7.30- 9.30	Chemistry - - - -	—	E. J. Rothery
Wednesday	7.00- 8.30	Physics - - - -	—	—
	8.30-10.00	Mathematics - - - -	—	P. Gallagher
Friday	9.00-10.00	Mathematics - - - -	—	P. Gallagher
	10.00-12.30	Chemistry - - - -	—	E. J. Rothery
	2.00- 5.00	Physics - - - -	—	—

Ref. : P.S.D.I. Part 1, B.Sc. Course

Teacher-in-Charge : E. J. ROTHERY, B.Sc., F.I.C.I., A.R.I.C.

Fee : £4 per session.

This one-year Course prepares students for the Part 1 Examination of the University of London External B.Sc. Degree in Mathematics, Physics and Chemistry. Prospective students must have satisfied the minimum entrance requirements of the University of London and have passed in Mathematics, Physics and Chemistry at Advanced Level in the General Certificate of Education Examinations. In certain circumstances, two passes at Advanced Level and one pass at Ordinary Level at an Advanced Level examination may be accepted.

Day	Time	Subject	Room	Teacher
Tuesday	9.00-10.00	Chemistry - - - -	24	E. J. Rothery
	10.00-11.00	Mathematics - - - -	24	T. Ambrose
Thursday	11.00-12.30	Chemistry (Lab.) - - - -	21	E. J. Rothery
	2.00- 3.30	Mathematics - - - -	24	T. Ambrose
	3.30- 5.00	Physics - - - -	24	F. Nolan

Students also attend the evening classes of Course No. 23.

Ref. : P.S.D.II. Part II (Final), B.Sc. Course

Teacher-in-Charge : E. J. ROTHERY, B.Sc., F.I.C.I., A.R.I.C.

Fee : £5 per session.

This three-year Course prepares students for the Part II (Final) External B.Sc. Degree Examination of the University of London in Chemistry and Mathematics.

Day	Time	Subject	Room	Teacher
Tuesday	9.00-10.00	Mathematics - - - -	21	T. Ambrose
	10.00-11.00	Chemistry - - - -	21	E. J. Rothery
	11.00-12.30	Chemistry (Lab.) - - - -	21	E. J. Rothery
Thursday	2.00- 3.30	Chemistry - - - -	21	E. J. Rothery
	3.30- 5.00	Mathematics - - - -	21	T. Ambrose

Students also attend the evening classes of Course No. 24.

EVENING COURSES

GENERAL EDUCATION COURSES IN OTHER TECHNICAL INSTITUTES

The attention of prospective students who have not attained the appropriate educational entrance standard for admission to courses in this College is directed to the following courses offered in other Institutes :—

1. PRE-SPECIALISATION COURSES AT THE TECHNICAL INSTITUTES, CAPEL STREET, CLOHER ROAD, KILLESTER, AND MOUNT STREET for entry to trade courses.
2. PREPARATORY COURSE AT THE TECHNICAL INSTITUTE, MOUNT STREET, for entry to General Certificate of Education Courses (Nos. 20 and 42).

At the end of the above courses a qualifying examination will be held in this College for admission to the appropriate courses in this College next session.

3. MATRICULATION COURSE AT THE COLLEGE OF COMMERCE, RATHMINES, AND THE TECHNICAL SCHOOL, EMMET ROAD, INCHICORE.

DEPARTMENT OF PURE AND APPLIED SCIENCE Mathematics

Teacher-in-Charge : J. M. FORDE, B.E.

FEES: Courses Nos. 1-9 —30/- each per session.

Courses Nos. 10-19—£2 each per session.

MATHEMATICS FOR ENGINEERING PRACTICE AND TRADES

No. of Course	Day	Time	Subject	Room	Teacher
1	Friday	7.30-9.30	Practical Mathematics I	20	D. J. O'Sullivan
2	Wed.	7.30-9.30	Do. II	19	—
3	Thursday	7.30-9.30	Do. III	8c	J. A. O'Donovan
4	Thursday	7.30-10.00	Do. IV	19	—
4a	Friday	8.30-10.00	Do. V	—	—

Students are required to sit the Department of Education Examinations in Mathematics, Elementary, at the end of Stage II and Mathematics, Intermediate, at the end of Stage IV

MATHEMATICS FOR TELECOMMUNICATIONS (INCLUDING RADIO SERVICE WORK AND POST OFFICE ENGINEERING)

No. of Course	Day	Time	Subject	Room	Teacher
5	Wed.	7.30-9.30	Mathematics for Telecommunications (Elementary) - - -	8c	—
6	Wed.	7.30-9.30	Mathematics for Telecommunications I - -	11	E. D. Doyle
8	Thursday	7.30-10.00	Do. II -	15	E. D. Doyle
9	Tuesday	7.30-10.00	Do. III -	28	R. F. O'Connell

Students are required to sit the City and Guilds of London Institute Examinations in Mathematics for Telecommunications A, B and C at the end of Stages I, II and III, respectively.

EVENING COURSES

MATHEMATICS FOR ENGINEERING

No. of Course	Day	Time	Subject	Room	Teacher
10	Tuesday	7.00-10.00	Mathematics for Engineering I - - -	11	—
11	Monday	8.30-10.00	Do. II - - -	17	P. G. Macnamara
	Wed.	8.30-10.00		28	P. G. Macnamara
13	Monday	7.00- 8.30	Do. IV - - -	15	P. G. Macnamara
14	Wed.	7.00- 8.30	Do. VI - - -	13	P. G. Macnamara

Students are required to sit the General Certificate of Education Examination in Additional Pure Mathematics (Ordinary Level) at the end of the first stage. Stages II and III each extend over two sessions. The Joint Part I Examination in Mathematics of the professional engineering institutions may be taken on completing the two sessions of Stage II, and the Part II Examination of the Institution of Electrical Engineers on completing the two sessions of Stage III by registered students.

The Department of Education Examinations in Mathematics Advanced may also be taken on completing the two sessions of Stage II, and the Higher Technological Examination on completing the two sessions of Stage III.

MATHEMATICS FOR SCIENCE

No. of Course	Day	Time	Subject	Room	Teacher
15	Friday	7.00-10.00	Mathematics I - - -	12	E. J. McLaughlin
16	Wed.	7.00- 8.00		15	—
	Friday	8.00-10.00	Do. II - - -	25	—
17	Wed.	8.00-10.00		17	—
	Friday	7.00- 8.00	Do. III - - -		—
18	Tuesday	7.00-10.00	Do. IV - - -		T. Ambrose
19	Thursday	7.00-10.00	Do. V - - -	13	T. Ambrose

Students are required to sit the General Certificate of Education Examination in Additional Pure Mathematics, Ordinary Level, at the end of the first stage and the Advanced Level at the end of the third stage. On completing the two sessions of Stage IV students sit the Part I examination in Mathematics of the University of London External B.Sc. Degree.

PURE AND APPLIED CHEMISTRY

B.Sc. DEGREE COURSE (UNIVERSITY OF LONDON)

This Course is provided for students who wish to sit for the University of London external B.Sc. Degree (General). Conditions for entry to the Course are the same as for the part-time Senior Science Course (P.S.S.) as described on page 28. Students should arrange to comply with the regulations for registration as external students of the University of London as soon as possible and should obtain copies of the regulations relating to University Entrance Requirements from the Secretary to the University Entrance and School Examinations Council, University of London, Senate House, London, W.C.1.

The Course extends over at least seven sessions. At the end of the first year students are required to sit the General Certificate of Education Examination in Additional Pure Mathematics, Physics and

EVENING COURSES

Chemistry at Ordinary Level and at the end of the third year the General Certificate of Education in the same subjects at Advanced Level. Passes in these three subjects at Advanced Level, together with a pass in English at Ordinary Level, will satisfy the University of London requirements for the purpose of proceeding to the B.Sc. Degree.

September-May—Fee, £2 10s. 0d. per session.

GENERAL CERTIFICATE OF EDUCATION—ORDINARY LEVEL

Teacher-in-Charge: M. J. SHEEHY, B.SC., A.INST.P.

No. of Course	Day	Time	Subject	Room	Teacher
20	Thursday	7.00–10.00	Physics I - - -	12-10	M. J. Sheehy
	Tuesday	7.00–10.00	Chemistry I - - -	25, 22	L. Breen
			or		
	Wed.	7.00–10.00	Chemistry IA - - -	25, 22	F. Hurley
	Friday	7.00–10.00	Mathematics (15) - - -	12	—
	Monday	7.00–10.00	English (optional) - - -	14	T. A. G. Dowling

GENERAL CERTIFICATE OF EDUCATION—ADVANCED LEVEL

Teacher-in-Charge: W. BRODERICK, M.SC., H.DIP.ED., M.I.C.I.

No. of Course	Day	Time	Subject	Room	Teacher
21	Monday	7.00–8.00	Physics II - - -	—	W. S. E. Hickson
		8.00–10.00	Chemistry II - - -	—	—
	Wed.	7.00–8.00	Mathematics (16) - - -	15	—
		8.00–10.00	Physics II - - -	16	W. S. E. Hickson
	Friday	7.00–8.00	Chemistry II - - -	25	—
		8.00–10.00	Mathematics (16) - - -	25	—

No. of Course	Day	Time	Subject	Room	Teacher
22	Monday	7.00–8.00	Chemistry - - -	—	—
		8.00–10.00	Physics III - - -	—	W. S. E. Hickson
	Wed.	7.00–8.00	Physics III - - -	17	W. S. E. Hickson
		8.00–10.00	Mathematics (17) - - -	17	—
	Friday	7.00–8.00	Mathematics (17) - - -	—	—
		8.00–10.00	Chemistry III - - -	—	—

For details of the Foy Scholarship in Applied Chemistry, see page 52.

EVENING COURSES

Part I, B.Sc. Course

Teacher-in-Charge : E. J. ROTHERY, B.Sc., F.I.C.I., A.R.I.C.

Fee : £2 10s. 0d. per Session

This Course extends over two sessions.

Prospective students must have satisfied the minimum entrance requirements of the University of London for the B.Sc. degree and have passed in Mathematics, Physics and Chemistry at Advanced Level. In certain circumstances, two passes at Advanced Level and a pass at Ordinary Level at an Advanced Level examination may be accepted.

No. of Course	Day	Time	Subject	Room	Teacher
23	Monday	7.00-10.00	Physics IV - - -	15, 16	F. Nolan
	Thursday	7.00-10.00	Chemistry IV - - -	21	E. J. Rothery
	Tuesday	7.00-10.00	Mathematics (18) - - -	27	T. Ambrose

Part II (Final), B.Sc. Course

Teacher-in-Charge : E. J. ROTHERY, B.Sc., F.I.C.I., A.R.I.C.

Fee : £4 per session.

This Course extends over three sessions and prepares students for the B.Sc. Degree (External) of the University of London in Chemistry and Mathematics.

No. of Course	Time	Day	Subject	Room	Teacher
24	7.00-10.00	Monday	Chemistry V - - -	21	P. A. Start
	7.00-10.00	Tuesday	Statistics - - -	13	D. Harrington
	7.00-10.00	Thursday	Mathematics (19) - - -	13	T. Ambrose

The attention of all students of Course Nos. 20-24 is directed to the part-time day courses P.S.S., P.S.I., P.S.D. I, and P.S.D. II, described on pages 28-29 of this Prospectus.

MICROBIOLOGY

Diploma Course

September—May

Teacher-in-Charge : Miss F. DOHERTY, B.Sc., B.A. (MOD.).

Fee : £4 per session.

This Course extends over two years and is held on two evenings per week. A Diploma will be issued to successful students. Details regarding entry standard, syllabus content, etc., may be

EVENING COURSES

obtained by applying in writing to the Principal. Students will be enrolled in the first year of the Course in alternate sessions.

FIRST YEAR

No. of Course	Day	Time	Subject	Room	Teacher
26	Tuesday Thursday	7.00-10.00	General Principles of Microbiology - -	23, 28	Miss F. Doherty

SECOND YEAR (1964-65)

No. of Course	Day	Time	Subject	Room	Teacher
	Tuesday Thursday	7.00-10.00	Applied Microbiology -	23, 28	Miss F. Doherty

MEDICAL LABORATORY TECHNOLOGY COURSE

This Course is provided for those employed in Medical Laboratories who wish to prepare for the Intermediate and Final Examinations of the Institute of Medical Laboratory Technology and who have satisfied the minimum entrance requirements for registered students of that Institute. The complete Course extends over seven sessions and with the exception of the first year, all classes are conducted in various Medical Laboratories with the co-operation of the Authorities concerned.

Course Co-ordinator : MR. CYRIL KEOGH.

Fees :

1st Year—£3 per annum.

2nd and 3rd Years—£4 per annum.

4th to 7th Year—£5 per annum.

PRELIMINARY COURSE, 1ST YEAR

No. of Course	Day	Time	Subject	Room	Teacher
S51	Monday	7.00- 8.30	Biology - - -		
		8.30-10.00	Physics - - -		
	Wed.	7.00- 8.30	Chemistry - - -		
		8.30-10.00	Physics - - -		
	Friday	7.00- 8.30	Biology - - -		
		8.30-10.00	Chemistry - - -		

EVENING COURSES

INTERMEDIATE COURSE, 2ND AND 3RD YEARS

No. of Course	Day	Time	Subject	Room	Teacher
S54	Monday	7.30-10.00	Histopathology - -		
S57	Tuesday	7.30-10.00	Bacteriology - -		
	Wed.	7.30-10.00	Blood Transfusion - -		
	Thursday	7.30-10.00	Biochemistry - -		
	Friday	7.30-10.00	Haematology - -		

FINAL COURSE, 4TH TO 7TH YEAR

No. of Course	Day	Time	Subject	Room	Teacher
S52	Monday	7.30-10.00	Blood Transfusion - -		
S53	Wed.	7.30-10.00	Bacteriology - -		
	Thursday	7.30-10.00	Haematology - -		

GLASSBLOWING

Fee : £2 per session.

No. of Course	Day	Time	Subject	Room	Teacher
25	Monday or Friday	7.00-10.00	Glassblowing - - -	1	W. G. Brady

FLOUR MILLING TECHNOLOGY

Teacher-in-Charge : F. NOLAN, M.SC., H.DIP.ED.

Fee : £2 per session.

FIRST YEAR

No. of Course	Day	Time	Subject	Room	Teacher
27	Monday	7.00-9.30	Flour Milling Technology I - -	27	W. de Lacy
	Thursday	7.00-9.30	Flour Milling Technology and Science I -	27	W. de Lacy

EVENING COURSES

SECOND YEAR

No. of Course	Day	Time	Subject	Room	Teacher
28	Monday	7.00-9.30	Flour Milling Tech- nology II - - -	27	W. de Lacy
	Thursday	7.00-9.30	Flour Milling Tech- nology and Science II	27	W. de Lacy

At the end of the second year students sit for the Intermediate Examination of the Department of Education and of the City and Guilds of London Institute.

THIRD YEAR

No. of Course	Day	Time	Subject	Room	Teacher
29	Wed.	7.00-9.30	Flour Milling Tech- nology III - - -	27	W. de Lacy
	Thurs.	7.00-9.30	Flour Milling Tech- nology and Science III	22	R. A. D'Arcy

FOURTH YEAR

No. of Course	Day	Time	Subject	Room	Teacher
30	Wed.	7.00-9.30	Flour Milling Tech- nology IV - - -	27	W. de Lacy
	Thurs.	7.00-9.30	Flour Milling Tech- nology and Science IV	22	R. A. D'Arcy

At the end of the fourth year students sit for the Final Examinations of the Department of Education and of the City and Guilds of London Institute.

DEPARTMENT OF ELECTRICAL INSTALLATION WORK

Courses Nos. 31-35 are reserved to Trade Apprentices and Journeymen who pass the Entrance Examination. The attention of students who do not pass this examination is directed to the Courses described on page 30.

EVENING COURSES

Electrical Installation Work

Fee : £2 per session.

JUNIOR TRADE CERTIFICATE COURSE

FIRST YEAR

Teacher-in-Charge : M. FARRELL, Full Technological Certificate (E.E.P.) (City and Guilds of London Institute).

No. of Course	Day	Time	Subject	Room	Teacher
31	Monday	7.30-10.00	Practical Installation I	33	I. Tighe
	Tuesday	7.30-10.00	Electricity IA - -	12-10	J. Colbert
	Friday	7.30-10.00	Engineering Science IA	3	M. Hayes
32	Wed.	7.30-10.00	Practical Installation I -	33	I. Tighe, P. O'Shea
	Monday	7.30-10.00	Electricity IB - -	12-10	M. Hayes
	Tuesday	7.30-10.00	Engineering Science IB	8a	R. Kelly

SECOND YEAR

Teacher-in-Charge : I. TIGHE.

No. of Course	Day	Time	Subject	Room	Teacher
33	Thursday	7.30-10.00	Practical Installation II	33	D. McManus
	Monday	7.30-10.00	Electricity IIA - -	3, 6	E. Hanly
	Tuesday	7.30- 8.45	Engineering Science IIA	4	V. Duggan
	Tuesday	8.45-10.00	Electrical Installation Theory - - -	4	V. Duggan
34	Thursday	7.30-10.00	Practical Installation II	33	D. McManus
	Monday	7.30-10.00	Electricity IIB - -	8c, 8b	J. Colbert
	Tuesday	7.30- 8.45	Engineering Science IIB	3	M. Ryan,
	Tuesday	8.45-10.00	Electrical Installation Theory - - -	3	T. Mahon
					M. Ryan,

Students are required to sit the Junior Trade Certificate Examinations, Written and Practical, and the Electrical Engineering Practice D.C. Elementary Examination of the Department of Education.

EVENING COURSES

SENIOR TRADE CERTIFICATE COURSE

THIRD YEAR

Teacher-in-Charge : I. TIGHE.

No. of Course	Day	Time	Subject	Room	Teacher
35	Tuesday	7.30-10.00	Practical Installation III	33	I. Tighe
	Thursday	7.30-10.00	Electricity III - -	5	J. Downes
	Friday	7.30- 8.45	Engineering Science III	19	J. O'Keeffe
	Friday	8.45-10.00	Electrical Installation— Theory - - -	19	J. O'Keeffe

Students are required to sit the Senior Trade Certificate Examinations, Written and Practical, and the Electrical Engineering Practice D.C. Intermediate and A.C. Elementary Examinations of the Department of Education and are expected to sit the Course "B" examination of the City and Guilds of London Institute.

Students in the above Courses may be permitted to take a class in Mathematics in lieu of Practical Installation.

EXTRA ELECTRICIANS' CERTIFICATE IN ELECTRICAL INSTALLATION WORK, COURSE C—CITY AND GUILDS OF LONDON INSTITUTE

FOURTH YEAR

Teacher-in-Charge : J. J. FARRELL, Full Technological Certificate (E.E.P. and E.I.W.) (City and Guilds of London Institute).

No. of Course	Day	Time	Subject	Room	Teacher
36	Tuesday	7.30-10.00	Electricity IV - -	4	J. O'Keeffe
	Wed.	7.30-10.00	Electricity IV - -	5, 6	V. Duggan
	Thursday	7.30- 9.30	Mathematics (3) - -	8c	—

This Course also prepares students for the Electrical Engineering Practice A.C. Intermediate examination of the Department of Education.

ELECTRICAL ENGINEERING PRACTICE FINAL

Teacher-in-Charge : J. J. FARRELL, GRAD.I.E.E.

Fee : £5 per session.

This Course extends over two sessions and prepares students for the Final Examinations in Electrical Engineering Practice of the Department of Education and City and Guilds of London Institute. Prospective students must hold the Intermediate Certificate in Electrical Engineering of the Department of Education or City and Guilds of London Institute, or have equivalent qualifications. In addition, a pass in Mathematics, Intermediate, of the Department of Education may be required.

EVENING COURSES

FIRST YEAR

No. of Course	Day	Time	Subject	Room	Teacher
T15	Tuesday	7.00- 8.00	Circuit Theory - -	—	J. J. Farrell
		8.00- 9.00	Field Theory - -	—	J. J. Farrell
		9.00-10.00	Electrical Measurements -	—	J. J. Farrell
	Wed.	7.00- 9.00	Electrical Engineering -	—	J. Downes
		9.00-10.00	Utilisation - - -	—	J. Downes
	Friday	7.00- 8.30	Distribution - - -	—	T. McGibney
		8.30-10.00	Mathematics - - -	—	—

SECOND YEAR : To commence in session 1964/65.

SECOND YEAR (commencing 1964-65)

CABLE JOINTING

Fee : £4 per session.

Teacher-in-Charge : D. McMANUS.

Prospective students must possess the Senior Trade Certificate in Electrical Installation Work of the Department of Education or satisfy the school authority that they have an equivalent standard of Technical Education.

FIRST YEAR

No. of Course	Day	Time	Subject	Room	Teacher
37	Tues. and Thursday	7.30-10.00	Cable Jointing I (Lecture and Practical) -	34	D. McManus

SECOND YEAR (commencing 1964-65)

ELECTRONICS FOR ELECTRICIANS

Fee : £7 10s. 0d. per session.

Teacher-in-Charge : J. J. FARRELL, GRAD.I.E.E.

This Course is provided for electricians who wish to acquire a knowledge of electronics as applied to industrial control equipment. The first year of the course provides instruction in the elementary principles of electronics and its application to motor speed control, oil firing equipment, counters and control of lighting circuits. A certificate will be issued to those who successfully complete the first year of the course and pass the appropriate examinations. The second year of the course provides theoretical and practical instruction in the construction of industrial electronic units, e.g., counting units, cut-off units, rapid and slow-acting relay units, amplifiers, triggering units, metal detectors, etc. Prospective students must be electricians who hold the Senior Trade Certificate in Electrical Installation Work of the Department of Education or who satisfy the College Authority that they have an equivalent standard of technical education.

EVENING COURSES

No. of Course	Day	Time	Subject	Room	Teacher
38	Wednesday	7.30-10.00	Electronics for Electricians I - - -	3	D. Hogan, T. Dempsey
39	Thursday	7.30-10.00	Electronics for Electricians II - - -	3	D. Hogan, T. Dempsey

40—MAINTENANCE AND TESTING OF ELECTRICAL EQUIPMENT

Fee : £7 10s. 0d. per session.

Teacher-in-Charge : J. J. FARRELL, Full Technological Certificate (E.E.P. and E.I.W.) (City and Guilds of London Institute).

This Course is provided for electricians who wish to acquire a knowledge of testing methods and equipment.

The Course will be held during the day or the evening and at a time to suit the majority of the applicants.

Prospective students must be electricians who hold the Senior Trade Certificate in Electrical Installation Work of the Department of Education or who satisfy the School Authority that they have an equivalent standard of technical education.

41—REFRIGERATION (THEORY AND PRACTICE)

Fee : £7 10s. 0d. per session.

Teacher-in-Charge : L. TRUNDLE, Full Technological Certificate (E.E.P.) (City and Guilds of London Institute)

This Course is provided for refrigeration mechanics. It includes theoretical instruction in the principles of electricity and of refrigeration and practical instruction in maintenance, fault-finding and repairs. Prospective students must have a standard of general and technical education acceptable to the College authority. Classes will be held on Tuesday evenings from 7.30-10.0 p.m. in Rooms 5 and 1. Teachers : A. Ryan and J. Broe.

ELECTRICAL ENGINEERING

Graduateship of the Institution of Electrical Engineers

Consequent upon recent changes in the Examination Regulations of the Institution of Electrical Engineers it has proved necessary to reorganise this Course on a Part-time Day Release basis. Students who have progressed beyond Part I of the old Evening Course will continue on the old scheme. Students who have successfully completed the Preliminary Engineering Course and students who have not yet taken the Part I Examination of the Institution of Electrical

EVENING COURSES

Engineers will be accepted in Course P.E.E. I described on page 24 of the Prospectus. It is hoped to replace the Evening Part II and Part III Courses in successive years by corresponding Part-time Day Release classes similar in pattern to that described for P.E.E. I.

Prospective students who wish to prepare for the professional examinations of the Institution of Electrical Engineers should seek the advice of the teachers-in-charge as to their eligibility for registration as a student of the Institution of Electrical Engineers. Students should obtain a copy of the Examination Regulations from the Institution of Electrical Engineers, Savoy Place, London, W.C.2. Extracts from the Bye-laws of the Institution given under Appendix I in these Regulations indicate how a student may qualify for election to the class of Associate Member (A.M.I.E.E.).

The attention of all students of Course Nos. 42-47 is directed to the Part-time Day Courses P.S.S. and P.E.E. described on pages 28 and 24 respectively of this Prospectus.

Fee, £2, September—June.

PRELIMINARY COURSE

Teacher-in-Charge : P. O GALLCHOBHAIR, B.EOL., A.T.O.

No. of Course	Day	Time	Subject	Room	Teacher
42	Monday	7.00-8.30	Physics - - -	—	M. J. Sheehy
		8.30-10.00	Applied Mathematics - - -	—	P. O Gallchobhair
	Tuesday	7.00-10.00	Mathematics (10) - - -	—	—
	Wed.	7.00-8.30	Applied Mathematics - - -	—	P. O Gallchobhair
		8.30-10.00	Physics - - -	—	—
	Thursday	7.00-10.00	English - - -	25	T. A. G. Dowling

Prospective students must pass an entrance examination in English and Mathematics. The attention of students who do not pass this examination is directed to the Preparatory Course described on page 30.

GRADUATESHIP COURSE

Students entering this Course must have complied with all the educational requirements for registration as a student of the Institution of Electrical Engineers.

PART I

Teacher-in-Charge : T. SHORT, A.M.I.E.E., GRAD.BRIT.I.R.E.

No. of Course	Day	Time	Subject	Room	Teacher
43	Monday	7.00-8.30	Electricity - - -	—	T. Short
		8.30-10.00	Mathematics - - -	—	P. G. Macnamara
	Tuesday	7.00-8.30	Mechanics - - -	—	—
		8.30-10.00	Physics - - -	—	—
	Wed.	7.00-8.30	Electricity - - -	—	T. Short
		8.30-10.00	Mathematics - - -	—	P. G. Macnamara

EVENING COURSES

PART II

Teacher-in-Charge : T. CRONIN, B.E.

No. of Course	Day	Time	Subject	Room	Teacher
45	Monday	7.00- 8.30	Mathematics - -	—	P. G. Macnamara
		8.30-10.00	Electrical Machines - -	—	T. Short
	Wed.	7.00- 8.30	Mathematics - -	—	P. G. Macnamara
		8.30-10.00	Electronics - -	—	B. J. O'Connor

PART III

Teacher-in-Charge : T. SHORT, A.M.I.E.E., GRAD.BRIT.I.R.E.

No. of Course	Day	Time	Subject	Room	Teacher
47	Monday	7.00- 8.30	Mathematics - -	—	—
		8.30-10.00	Utilisation of Electrical Energy - -	—	R. Ryder
	Wed.	7.00- 8.30	Electronics - -	—	B. J. O'Connor
		8.30-10.00	Measurements - -	—	T. Short

Each Part of the Course extends over two sessions. Students who have passed the appropriate examination will be enrolled in the succeeding part of the Course in October each year.

DEPARTMENT OF TELECOMMUNICATIONS ENGINEERING

POST OFFICE ENGINEERING

Teacher-in-Charge : T. P. O'BRIEN, A.M.BRIT.I.R.E.

These Courses are designed to meet the requirements of employees of the Engineering Branch of the Department of Posts and Telegraphs and of others in similar industrial employment. The Courses have recently been re-organised in co-operation with the Post Office Engineering Advisory Committee. Applicants for admission to Course No. 48 will be required to sit an entrance examination in Mathematics and English of the same standard as that of the Department of Education (Technical Instruction Branch) Day Vocational Certificate. Applicants who fail to reach this standard will be required to attend a preliminary course to be held in another Technical Institute (see page 30).

Fee : £2 per session.

FIRST YEAR

No. of Course	Day	Time	Subject	Room	Teacher
48	Monday	7.30-10.00	Engineering Science - -	4	J. Cloughley
	Friday	7.00-10.00	Electricity - -	8c & 10	J. Cloughley
	Wed.	7.30- 9.30	Mathematics (6) - -	11	E. D. Doyle

Students sit the Department of Education Examination in Magnetism and Electricity and the City and Guilds of London Institute Examination in Mathematics for Telecommunications I.

EVENING COURSES

SECOND YEAR

No. of Course	Day	Time	Subject	Room	Teacher
49	Monday	7.30- 9.30	Telecommunications I -	5	J. V. Quinn
	Tuesday	7.30- 9.30	Line Plant Practice -	7H	J. V. Quinn
	Thursday	7.30-10.00	Mathematics (8) -	15	E. D. Doyle

Students sit the Department of Education Examinations in Telecommunications I and Line Plant Practice and the City and Guilds of London Institute Examination in Mathematics for Telecommunications II.

THIRD YEAR

No. of Course	Day	Time	Subject	Room	Teacher
50	Thursday	7.00-9.00	Telecommunications IIA or Telecommunications IIB	4H	J. J. Woods
	Friday	7.30-9.30	Electronics - - -	7H	T. P. O'Brien

Students sit the Department of Education Examination in Telecommunications IIA or IIB.

FOURTH YEAR

No. of Course	Day	Time	Subject	Room	Teacher
51	Mon. or Wed.	7.30- 9.30	Electronics for Tele- communications -	7H	T. P. O'Brien
	Tuesday	7.30-10.00	Mathematics (9) - -	28	R. F. O'Connell

Students sit the Department of Education Examination in Electronics for Telecommunications. The fifth year of the Course will be offered in 1963-64 and will consist of Transmission and Lines or Radio Communication (2 evenings each).

POST OFFICE FACTORY MECHANICS

A course has been arranged for Junior Mechanics employed by the Post Office Factory. Most of the classes are concurrent with those described above.

Fee : £2 per session.

FIRST YEAR

No. of Course	
52	As Course No. 48 above

SECOND YEAR

No. of Course	Day	Time	Subject	Room	Teacher
53	Monday	7.30-9.30	Telecommunications I -	5	J. V. Quinn
	Tuesday	7.30-9.30	Telephone Repairs B -	8c	R. O'Brien
	Thursday	7.30-10.0	Mathematics (8) - -	15	E. D. Doyle

THIRD YEAR

No. of Course	Day	Time	Subject	Room	Teacher
54	Thursday	7.00-9.00	Telecommunications IIA	7H	J. J. Woods
			or Telecommunications IIB		
	Tuesday	7.30-9.30	Telephone Repairs B -	8c	R. O'Brien
	Friday	7.30-9.30	Electronics - - -	7H	T. P. O'Brien

FOURTH YEAR : As Course 51 above.

RADIO AND TELEVISION SERVICING

Applicants for admission to this Course must hold the Day Vocational Certificate (Manual Training Group) in approved subjects or the Intermediate Certificate (Secondary Schools). They may be required to pass an Entrance Examination in Mathematics and English.

Priority in enrolment is given to those apprenticed in the Radio Service Trade.

Teacher-in-Charge : E. G. SEALE, GRAD.BRIT.I.R.E.

Fee : £2 per session.

FIRST YEAR

No. of Course	Day	Time	Subject	Room	Teacher
55	Tuesday	7.00-10.00	Electricity - -	19	R. W. Sloane
	Thursday	7.30-10.00	Engineering Science -	8a, 8b	R. W. Sloane
	Wed.	7.30- 9.30	Mathematics (5) -	8c	—

SECOND YEAR

No. of Course	Day	Time	Subject	Room	Teacher
56	Tuesday	7.30-10.00	Radio Theory I -	9	J. Du Barry
	and Friday	7.30-10.00	Radio Theory I - -	9	J. Du Barry
	Wed	7.30- 9.30	Mathematics (6) - -	11	E. D. Doyle

At the end of this year of the Course students sit the examinations of the Department of Education in Radio Service Work (Junior).

EVENING COURSES

THIRD YEAR

No. of Course	Day	Time	Subject	Room	Teacher
57	Monday	7.00-10.00	Radio Theory II -	9	—
	and Thursday	7.00-10.00	Radio Theory II - -	9	—

At the end of this year of the Course students sit the examinations of the Department of Education in Radio Service Work (Senior) and may sit the Intermediate Examination in Radio and Television Servicing of the Radio Trades Examination Board, London.

FOURTH YEAR

No. of Course	Day	Time	Subject	Room	Teacher
58	Monday	7.00-10.00	Television Servicing I -	6H	T. Lawless
	or Thursday Wednesday	7.30-10.00	Radio Theory III - -	9	E. G. Seale

FIFTH YEAR

No. of Course	Day	Time	Subject	Room	Teacher
59	Monday	7.30-10.00	Radio Theory IV - -	—	E. G. Seale
	Tuesday or Friday	7.00-10.00	Television Servicing II -	6H	W. Chapple

At the end of this year of the Course, students sit the Final Examination in Radio and Television Servicing of the Radio Trades' Examination Board, London.

RADIO OFFICERS' CERTIFICATE COURSE (Mercantile Marine)

Teacher-in-Charge : B. J. O'CONNOR, A.M.BRIT.I.R.E.

Fee : £6 per session.

This Course is conducted in the Radio School, 51 Harcourt Street, which is part of the College of Technology, Kevin Street.

The Course extends over three years for a 2nd Class Certificate and an additional year is necessary for a 1st Class Certificate. Prospective students should have a general education equivalent to that of

EVENING COURSES

Intermediate Certificate and may be required to pass an Entrance Examination in English and Mathematics.

TIMETABLE (September to June)

FIRST YEAR

No. of Course	Day	Time	Subject	Room	Teacher
60	Tuesday	7.00-10.00	Morse - - - -	3H	H. McElligott
	Wed.	7.00-10.00	Morse - - - -	4H	H. McElligott
	Thursday	7.00-10.00	Morse - - - -	3H	H. McElligott
	Friday	7.00-10.00	Technical Electricity I -	8a, 8b	P. Harrington

SECOND YEAR

No. of Course	Day	Time	Subject	Room	Teacher
61	Monday	7.00-10.00	Morse - - - -	3H	J. Dorney
	Tuesday	7.30- 9.30	Technical Electricity II	4H	P. Harrington
	Friday	7.00- 9.00	Morse - - - -	3H	J. Dorney
	Friday	9.00-10.00	International Regulations - - - -	3H	J. Dorney
	Thursday	7.30- 9.30	Radio Communication Theory I - - - -	4H	T. J. Kelly

THIRD YEAR

No. of Course	Day	Time	Subject	Room	Teacher
62	Monday	7.00- 8.30	Technical Electricity III -	4H	T. J. Kelly
		8.30-10.00	Radio Communication Theory II - - - -	4H	T. J. Kelly
	Thurs. or Friday	7.00-10.00	Practical Radio - - - -	2H	J. Blennerhassett
	Wed.	7.00- 9.00	Morse - - - -	3H	J. J. McCowan
	Wed.	9.00-10.00	International Rules - -	3H	J. J. McCowan
	Thursday	7.00-10.00	Morse - - - -	3H	J. J. McCowan

FOURTH YEAR: Radio Communication, Theory and Tutorial; Practical Radio; Morse, Traffic Working and International Regulations (3 evenings).

This year of the Course will be offered during the session 1964-65 if there is sufficient demand.

Course No. 63	MORSE: Morse may be taken as a separate subject on Tuesday, Wednesday and Thursday, 7.00-10.00, if accommodation permits, at a fee of £2 per term.
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For additional information, see pages 9 and 10.

EVENING COURSES

TELECOMMUNICATIONS TECHNICIANS' COURSE

Teacher-in-Charge: B. J. O'CONNOR, A.M.BRIT.I.R.E.

Fee: £2 per session.

This four-year Course prepares students for the Telecommunications Technicians' Certificate examinations of the City and Guilds of London Institute. The subjects offered are: Mathematics, Telecommunications Principles and Radio.

Applicants for admission to the Course should hold the Day Vocational Certificate (Manual Training Group) in approved subjects or the Intermediate Certificate (Secondary School).

Priority in enrolment will be given to those employed in the Radio and Electronics industry.

FIRST YEAR

No. of Course	Day	Time	Subject	Room	Teacher
R61	Monday	7.00- 8.30	Engineering Science -	—	—
		8.30-10.00	Elementary Telecommunications Practice -	—	—
	Wed.		Mathematics (5) - -	8c	—

At the end of this year of the Course students sit for Practical Mathematics, Engineering Science and Elementary Telecommunications Practice, examinations of the City and Guilds of London Institute.

SECOND YEAR

No. of Course	Day	Time	Subject	Room	Teacher
R62	Monday	7.00- 8.30	Telecommunications Principles A - -	11	J. J. Woods
		8.30-10.00	Radio and Line Transmission A - -	11	—
	Wed.	7.30- 9.30	Mathematics (6) - -	11	E. D. Doyle

At the end of this year of the Course students sit for Mathematics A, Telecommunications Principles A and Radio and Line Transmission A, examinations of the City and Guilds of London Institute.

EVENING COURSES

THIRD YEAR

No. of Course	Day	Time	Subject	Room	Teacher
R63	Monday	7.00- 8.30	Radio and Line Trans-		
			mission B - - -	—	—
		8.30-10.00	Telecommunications		
			Principles B - - -	—	J. J. Woods
	Thurs.	7.30-10.00	Mathematics (8) - - -	15	E. D. Doyle
	Friday	7.00- 9.00	Laboratory - - -	13	—
		9.00-10.00	Tutorial - - -	13	J. J. Woods

At the end of this year of the Course students sit for Mathematics B, Telecommunications Principles B and Radio and Line Transmission B examinations of the City and Guilds of London Institute.

FOURTH YEAR

No. of Course	Day	Time	Subject	Room	Teacher
R64	Tuesday	7.00- 9.30	Mathematics - - -	—	R. F. O'Connell
	Wed.	7.00- 9.00	Laboratory - - -	13	—
		9.00-10.00	Tutorial - - -	13	—
				—	—
	Thurs.	7.00- 9.00	Radio C - - -	—	—
		9.00-10.00	Telecommunications		
			Principles C - - -	—	J. J. Woods
	Friday	7.00- 9.00	Telecommunications		
			Principles C - - -	—	J. J. Woods
		9.00-10.00	Radio C - - -	—	—

At the end of the Course students sit for Mathematics C, Telecommunications Principles C and Radio C examinations of the City and Guilds of London Institute.

Air Navigation—Civil Aviation

Teacher-in-Charge : CAPT. B. FLANAGAN.

These Courses are conducted in the Radio School, 51 Harcourt Street, which is part of the College of Technology, Kevin Street.

Courses in AIR NAVIGATION subjects in preparation for the State Examination for Pilot's and Navigator's Licences.

The Courses offer specialised instruction based on the Syllabuses for the various Licence examinations conducted by the Department of Transport and Power. Applicants for admission to the Course for the Pilot's Licences must have attained proficiency in Plane Trigonometry up to the general solution of triangles and in the use of five-figure logarithms.

The granting of Licences to successful examinees is contingent on submitting acceptable evidence of actual flying experience to

EVENING COURSES

the minimum extent laid down in Statutory Instrument No. 33 of Air Navigation (Personnel Licensing) Order, 1951.

The Courses are conducted on three evenings per week during the session.

66. AIRCRAFT DISPATCHER COURSE

September to June—Fee : £15.

This Course, which is conducted on three evenings per week, from 7.30-10 p.m., is officially recognised by the Civil Aeronautics Administration, United States Department of Commerce. Students who successfully graduate from this Course are eligible to sit for the Federal Aviation Agency Aircraft Dispatcher's Licence provided they are at least 23 years of age.

Subject	Teacher
Aircraft Dispatching, Navigation, Aircraft Instruments, Civil Air Regulations	Capt. B. Flanagan
Telecommunications and Radio Aids to Navigation	
Meteorology	J. Ring
Air Traffic Control	J. O'Connor
Aircraft (Airframes, Engines, etc.)	G. McCudden
Link Trainer	—
	A. W. Patterson

No.	Course	Fee
67	Commercial Pilot's Licence	£8 per Session
68	Airline Transport Pilot's Licence	£10 per Session
69	Flight Navigator's Licence	£15 per Session

Subject	Teacher
Navigation, Aeronautical Charts, Magnetic Compass, General Meteorology	Capt. B. Flanagan
Synoptic Meteorology	
Air Navigation Regulations, Rules of the Air, Air Traffic Control Procedures	G. McCudden
Telecommunications and Radio Aids to Navigation	
	J. Ring

EVENING COURSES

CIVIL AIRPORT CONTROL OFFICERS

The examination for Civil Airport Control Officers is similar in standard to the Senior Commercial Pilot's Licence examination or Aircraft Dispatcher Licence Examination.

70. PRIVATE PILOT'S LICENCE COURSE

Fee : £7 10s. 0d. per session.

The Course commences in November and provides a total of 75 hours instruction. It covers the theoretical portion of the syllabus of the Department of Transport and Power for the Private Pilot's Licence Examination as set out in Memorandum No. PEL/2 revised 1954. Classes are held on two nights each week from 7.30 to 10 p.m.

The number of students enrolled will be limited to a maximum of twenty, and applicants for enrolment must have a minimum of twenty hours flying experience.

BAKERY PRACTICE AND CONFECTIONERY DECORATION

Teacher-in-Charge : S. ANTHONY, TECH.DIP. CITY AND GUILDS.
BAKERY PRACTICE (Journeyman)

Fee : £2 per session.

No. of Course	Day	Time	Subject	Room	Teacher
71	Wednes.	7.00-10.00	Bakery Practice - -	20	S. Anthony

CONFECTIONERY DECORATION INTERMEDIATE COURSE

Fee : £2 per session.

No. of Course	Day	Time	Subject	Room	Teacher
72	Monday	7.00-10.00	Design, Icing, Piping -	20	—

ADVANCED COURSE

Fee : £2 per session.

No. of Course	Day	Time	Subject	Room	Teacher
73	Thursday	7.00-10.00	Design, Icing, Piping -	20	S. Anthony

EVENING COURSES

SPECIAL COURSES IN ENGINEERING AND SCIENCE AT GRADUATE OR POST-GRADUATE LEVEL

The College is prepared, subject to availability of accommodation and sufficient demand, to provide one or more Short Courses at Graduate or Post-Graduate Level on topics of Engineering and Scientific Interest during the current session. These Courses would be held on one evening per week, the day and time being arranged to suit the majority of those enrolled. A short list of typical courses, with the estimated number of lectures involved, is given below.

100	Introductory Electronics for Engineers, Part I	20	Lectures
101	Introductory Electronics for Engineers, Part II	20	„
102	Electronic Circuit Theory	10	„
103	Mathematics for Electrical Engineers	10	„
104	Transistors and Transistor Circuits	8	„
105	Radio Frequency Measurements	10	„
106	Transmission Lines and Aerials	8	„
107	Modern Physics for Engineers	6	„
108	Electronics for Chemists	10	„
109	Chromatography	6	„
110	Applications of Radio-Active Isotopes	6	„
111	Instrumental Analysis	8	„
112	Feed Back Control Systems	10	„
113	Statistics for Engineers and Scientists	20	„

FEEs : 6 or 8 Lectures, £3; 10 Lectures, £4; 20 Lectures, £7 10s.

Further information may be obtained on application to the Principal, who would welcome suggestions for the inclusion of other subjects of a similar nature.

SCHOLARSHIPS AND PRIZES

SCHOLARSHIPS TO THE SENIOR SCIENCE COURSE

The City of Dublin Vocational Education Committee offers twenty Scholarships, each valued at £40 tenable at the Colleges of Technology. Each Scholarship is for one year and will entitle the holder to a place in the Senior Science Course at this College or in the Preliminary Engineering Course at the College of Technology, Bolton Street. Ten Scholarships will be available to Technical School students and ten Scholarships to Secondary School students who have passed the Intermediate Certificate Examination. Scholarships will be awarded only to students who have resided ordinarily in the City of Dublin for the past three years.

Candidates who have sat their Certificate examinations in the current year will be permitted to sit for the Scholarship examination. However, the award of a Scholarship will be contingent on a candidate's success in the former examinations.

SCHOLARSHIPS FOR THE ELECTRICAL ENGINEERING COURSE (Whole-time Day)

The City of Dublin Vocational Education Committee offers scholarships to the second and third years of the above course. The scholarships are awarded on the results of the sessional examinations and consist of free tuition for the succeeding year of the course. One such scholarship will be awarded for each year of the course and where the numbers of students sitting for a sessional examination is ten or more, two such scholarships may be awarded.

MALLIN MEMORIAL PRIZE

Mr. Kevin Mallin, Vice-President of the Ampex Corporation, California, U.S.A., has presented to the City of Dublin Vocational Education Committee funds to endow an award to be known as the Mallin Memorial Prize in memory of his brother, Denis P. Mallin, B.A., late Headmaster of the Technical Institute, Marino, Dublin. The Prize, which is £50 in value, will be awarded to the best student of Electronics in the final year of the Electrical Engineering Sandwich Course S.E.E.

THE FOY SCHOLARSHIP IN APPLIED CHEMISTRY

A former student of the Institute, Mr. W. P. Armstrong, has established a Scholarship in Chemistry to be called the "Foy Scholarship." The annual value of the Scholarship is about £14, being the proceeds of an investment of £500 in Dublin Corporation Stock.

The Scholarship is awarded each Session on the result of the sessional examination in Chemistry held at the end of the 2nd Year B.Sc. Degree Course. All students who have attended regularly during two Sessions in the Chemistry Department are eligible to compete, and the student to whom the Scholarship is awarded must pursue his studies in the Chemistry Department during the following Session.

THE DUBLIN MECHANICS' INSTITUTE SCHOLARSHIPS

The Residuary Fund of the Dublin Mechanics' Institute has been made available for Industrial Scholarships under the management of the Vocational Education Committee.

One Scholarship will be awarded annually in the Electrical Engineering and Physics Group. The Scholarship is tenable for three years, and its value is about £3 per year.

Candidates must be engaged in an Operative Trade as Apprentices or Learners. They must be between the ages of 16 and 19, and must have attended a Technical Course during the preceding School Session and made 80 per cent. of the possible attendances in two of the subjects of the Course in which they are entered.

POST OFFICE ENGINEERING

The Department of Posts and Telegraphs offers the following prizes to students of the Post Office Engineering Sandwich Course: 1st Year and 2nd Year—1st Prize £5, 2nd Prize £2; 3rd Year—1st Prize £7, 2nd Prize £3, 3rd Prize £1. The Irish Post Office Engineering Union offers a 1st Prize of £3 and a 2nd Prize of £2 in each of the three years of the Course.

ELECTRICAL INSTALLATION WORK

The Electricity Supply Board offers prizes to a total value of £60 per annum for award to apprentices who secure 1st, 2nd or 3rd Place in the subjects Metalwork and Practical Installation in the Electrical Installation Work Sandwich Course.

PROJECTION SCIENCE

The Theatre and Cinema Association (Ireland) and the Irish Transport and General Workers' Union (Cinema Branch) jointly offer the following Prizes to students attending the Projection Science Course for Cinema Apprentices: 1st Year—1st Prize £3, 2nd Prize £2, 3rd Prize £1; 2nd Year—1st Prize £5, 2nd Prize £3; 3rd Year—1st Prize, Gold Medal and £5; 2nd Prize, Silver Medal and £3.

BREADMAKING AND FLOUR CONFECTIONERY

Silver Cups are awarded by the Irish Bakers, Confectioners' and Allied Workers' Union and the Dublin Master Bakers' Committee, to the students who obtain 1st and 2nd Places in the sessional examinations of the Part-time Day Release Course.

The Dublin Master Bakers' Committee, the Guild of Irish Bakers and the Irish Bakers and Confectioners' and Allied Workers' Union jointly offer the following prizes to apprentices who pass the Final examinations of the City and Guilds of London Institute in the three subjects, Breadmaking, Flour Confectionery and Bakery Science:—

1st Class passes in the three subjects—£12.

1st Class passes in two subjects and 2nd Class pass in the third—£10.

1st Class pass in one subject and 2nd Class passes in the other two—£8.

2nd Class passes in the three subjects—£6.

Two Silver Cups are presented jointly by the same three organisations for Confectionery Decoration Classes. One is the Intermediate Confectionery Decoration Cup, confined to competition among apprentices, and the second is the Advanced Confectionery Decoration Cup for competition among apprentices and journeymen.

Messrs. John F. Renshaw & Co. (Ireland), Ltd., present a Silver Cup for competition among apprentices of the Part-time Day Release Course. Prizes of 5 guineas, 3 guineas and 2 guineas are awarded to the students who obtain 1st, 2nd and 3rd places in this competition.

FLOUR MILLING TECHNOLOGY

The Irish Flour Millers' Association offers, annually, prizes to the value of £37 10s. for award to students attending the Courses who have attained successes in the Department of Education Examinations.

ELECTRONICS FOR ELECTRICIANS

The Electrical Trades Union of Ireland offers prizes to a total value of £10 for award to members who secure 1st, 2nd and 3rd Place in the Certificate Examination set at the end of the Course.

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